



# CommStat 12/21/17



This disease comes  
with a package:  
shame. When any  
other part of your  
body gets sick, you  
get sympathy.

-Ruby Wax

OLDQUOTES.COM

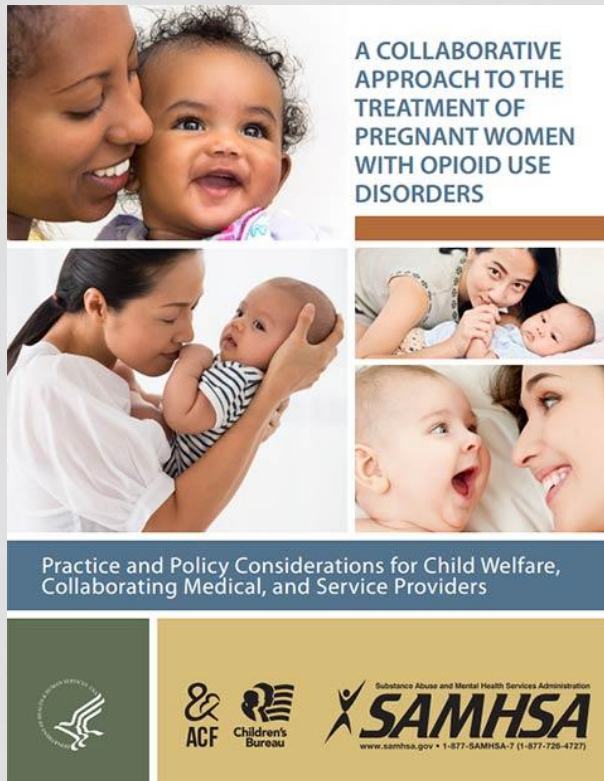


# Opioid-Exposed Newborns and their families

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December 21, 2017

# CHILDREN AND RECOVERING MOTHERS (CHARM) COLLABORATION IN BURLINGTON, VERMONT



**A COLLABORATIVE  
APPROACH TO THE  
TREATMENT OF  
PREGNANT WOMEN  
WITH OPIOID USE  
DISORDERS**

Practice and Policy Considerations for Child Welfare,  
Collaborating Medical, and Service Providers



## Table of Contents

Acknowledgments.....	i
Introduction.....	1
Background.....	3
Scope of the Problem.....	5
Opioid Use Trends.....	5
Neonatal Abstinence Syndrome.....	6
Guidelines for Supporting Collaborative Policy and Practice.....	8
Existing Guidelines.....	8
Need for Collaboration Among Multiple Agencies.....	11
Comprehensive Framework for Intervention.....	16
Overview of Substance-Exposed Infants (SEI) Framework.....	16
A Guide for Collaborative Planning.....	18
Building the Collaborative Team.....	19
Concluding Thoughts.....	22
Appendix 1: Facilitator's Guide.....	25
Appendix 2: Citations.....	61
Appendix 3: Training Needs and Resources.....	67
Appendix 4: Key Features of Medications Approved for Treating Opioid Use Disorders.....	75
<b>Appendix 5: Children and Recovering Mothers (CHARM) Collaborative in Burlington, Vermont: A Case Study.....</b>	<b>81</b>
Attachment A: CHARM Collaborative Memorandum of Understanding.....	103
Attachment B: CHARM Collaborative Release of Information.....	107
Attachment C: Hub and Spoke Initiative.....	111
Appendix 6: Additional Acknowledgments.....	115

## LULU JONES (FICTITIOUS NAME)

- 23 year old woman, pregnant for the first time
- Although the pregnancy was not planned, Lulu and her partner Chad are looking forward to having a baby
- At 12 weeks of pregnancy, Lulu confides in her doctor that she has been using opioids, specifically Vicodin, for the past 3 years.
- She has tried to stop many times and keeps restarting the pills and then used heroin when she couldn't buy pills.
- She wants her baby to be healthy and is desperate to quit and feels ashamed that she cannot.

## LULU JONES (CONT'D)

- Lulu experimented with drugs including marijuana, alcohol, cocaine (once) during her high-school years
- She really liked the feeling of opioids (Percocets) but they did not become a habit at that time
- 3 years ago, Lulu was in a car accident and had several limb fractures which required treatment with oxycodone
- She obtained several prescriptions for oxycodone in the months following, and then bought from the “street”
- Lulu began to suffer withdrawal and when she couldn't buy pills, she started using heroin
- She has repeatedly tried to stop using
- Lulu smokes cigarettes and has not used alcohol since she discovered she was pregnant



## LULU JONES (CONT'D)

- Lulu reports that she grew up in a “good family”, her mother is a nurse and her father has a successful business
- Lulu and Chad reside together in a rented apartment
- Lulu also related that she was sexually abused as a child by a distant male relative
- She has a history of anxiety and depression and is on anti-depressant therapy
- She has seen a therapist on occasion in the past, but never confided her drug use to her therapist

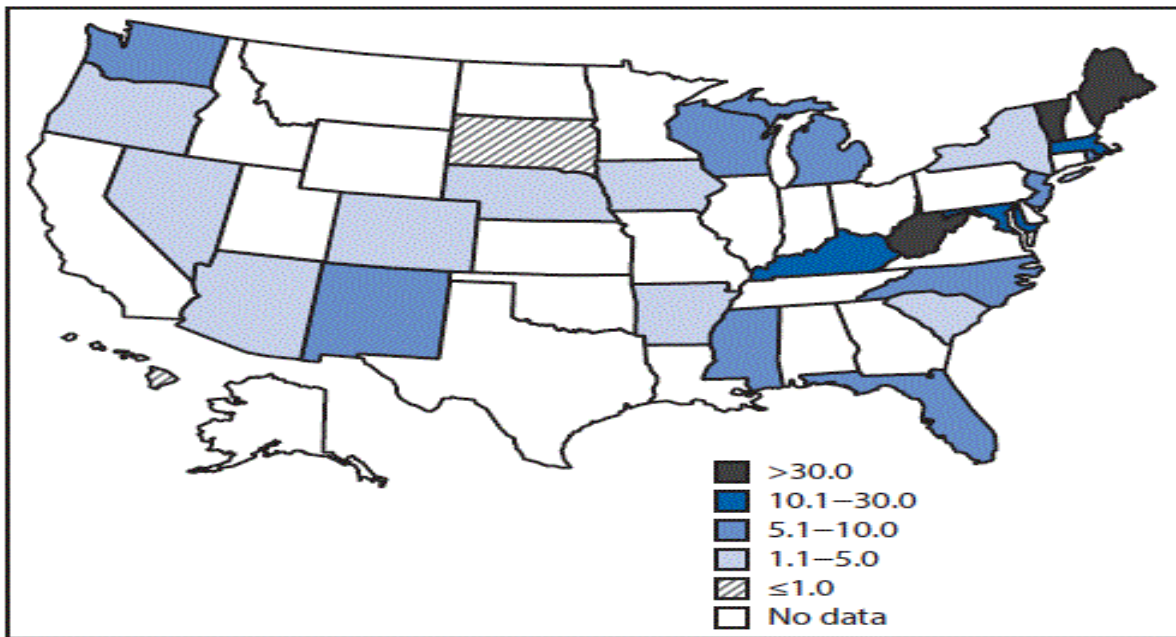
# LULU JONES (CONT'D)

## **Vermont's CHARM approach:**

- Lulu is assured that effective treatment is available and that part of her treatment will be to reduce the shame she feels
- Lulu was started on buprenorphine treatment with the goals of treating withdrawal, reducing cravings, and decreasing the effectiveness of any additional opioids she uses
- Immediately Lulu starts to feel better although she and Chad continue to worry about the effects of buprenorphine on their unborn baby
- Will our baby be “addicted”? What are the long-term effects?
- Will the state take our baby away?



# Neonatal Abstinence Syndrome Incidence Rates – 25 States, 2012-2013



Maine	30.4
Vermont	33.3
W Virginia	33.4

Vermont had the highest annual rate increase of states surveyed

# INCREASE IN NAS IN VERMONT

Represents:

- increased safe access to treatment
- increased identification

**This is a good thing!**

## Myth #1: Opioids during pregnancy → “damaged baby”

- There is no evidence that opioid exposure, in and of itself, results in developmental delay or any other lasting effects on the exposed child
- On the other hand, alcohol exposure can result in profound physical /developmental / behavioral effects

## Myth #2: Every baby born to a mother on opioids is born “addicted”

- Opioid-exposed: exposure to opioids – either prescribed or illicit
- Opioid-dependent: infant exhibits signs of withdrawal severe enough to need medication
- Opioid-addicted: infants cannot be addicts, the disease of addiction requires obsession and compulsion, loss of control, “breaking the rules”
- Vermont data show that only 25% of opioid-exposed infants require treatment.

**“Addicted newborns”**



Myth #3: If a baby needs treatment for opioid withdrawal, it must be because the mother “used” opioids during pregnancy

- The severity of withdrawal is not associated with the dose of medication during pregnancy
- Exposure to tobacco can increase the severity of withdrawal
- Higher Neonatal Abstinence Scores (NAS) do not indicate that a mother has “used” during pregnancy

## Myth #4: Opioid abuse + pregnancy = child abuse

- >1500 babies born to opioid-dependent women at UVMMC
- Over 90% of these babies were discharged in the care of their mother +/- father (2002 – 2014)
- The majority of parents we see are actively engaged in treatment and display good parenting, many need support in order to do so
- If a parent is not adhering to treatment, does not want to receive treatment **and** is actively using – they may NOT be ready to parent a child

# Medication Assisted Treatment (MAT): Standard of Care for Opioid Dependency in Pregnancy

- WHO 2014: “Pregnant women dependent on opioids should be encouraged to use opioid maintenance treatment...rather than...attempt opioid detoxification.”
- Facilitates retention of mothers/infants with decreased use of illicit substances when compared to no medication
- MAT results in NAS which needs Rx in 50-60% patients (Jones et al, 2010)
- The severity of NAS does not appear to differ according to the dose of methadone (or buprenorphine) maintenance therapy mothers received during pregnancy (Cleary et al, 2010; Jones et al., 2013)



## Why is medication assisted treatment the best alternative?

- Decreases prematurity and low birth weight
- Improves the health of the pregnancy
- Lowers infant mortality
- Pregnant woman feels well (not “high”) and has no cravings
- Successful engagement in treatment increases the probability of good parenting
- Detoxification during pregnancy is rarely successful and dangerous to the fetus

**Concern:** anything that drives pregnant opioid-dependent women from seeking treatment results in more prematurity, higher infant mortality, less probability of successful parenting

# Opioid dependence : Treatment options

- Detoxification – generally not safe nor advisable in pregnancy

- Medication Assisted Treatment (MAT): the standard of care in pregnancy

- Methadone



- Buprenorphine



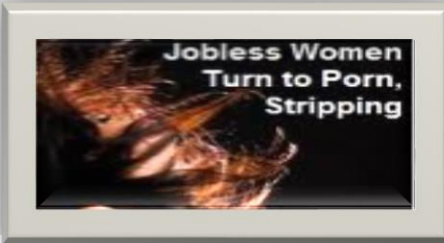
- Harm Reduction

- Needle exchange



# Issues facing substance-using pregnant women and their children

- **Generational substance use**
- **Untreated mental health problems**



- **Legal involvement**
- **Unstable housing**
- **Unstable transportation**



- **Limited parenting skills and resources**
- **Exposure to trauma**



- **Lack of positive and supportive relationships**

*Slide courtesy of H Jones*

# Shame





**"I SWEAR TO TELL THE TRUTH, THE WHOLE TRUTH, AND NOTHING BUT THE TRUTH, FROM MY PERSPECTIVE."**

# Focus on the mother's health to have better outcomes

- Build trust
- Focus on respect and strengths
- Decrease fear and shame
- **Promote breastfeeding**





# Neonatal Abstinence Syndrome (NAS): Description

- ◇ Neonatal Abstinence Syndrome is an expected consequence of a pregnant woman who
  - ❑ Uses opioids (e.g., heroin, oxycodone)
  - ❑ Is on prescribed opioids (e.g. for maternal pain)
  - ❑ Is on medication assisted treatment with methadone or buprenorphine
- ◇ Defined by alterations in the:
  - ❑ *Central nervous system*
    - high-pitched crying, irritability
    - exaggerated reflexes, tremors and tight muscles
    - sleep disturbances
  - ❑ *Autonomic nervous system*
    - sweating, fever, yawning, and sneezing
  - ❑ *Gastrointestinal distress*
    - poor feeding, vomiting and loose stools
  - ❑ *Signs of respiratory distress*
    - nasal stuffiness and rapid breathing

- **NAS is not Fetal Alcohol Syndrome (FAS)**
- **NAS is treatable and does not have any long-term consequences**

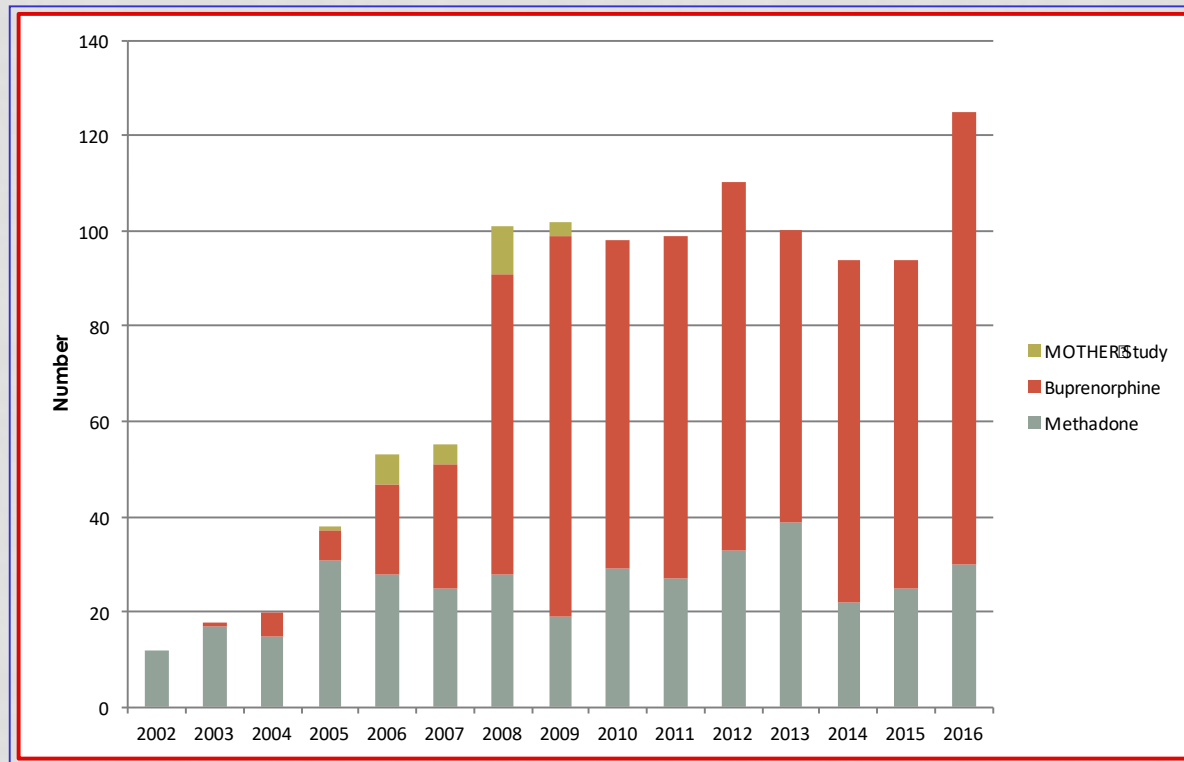
(Finnegan et al., *Addict Dis.* 1975; Desmond & Wilson, *Addict Dis.* 1975)

Slide adapted from H Jones



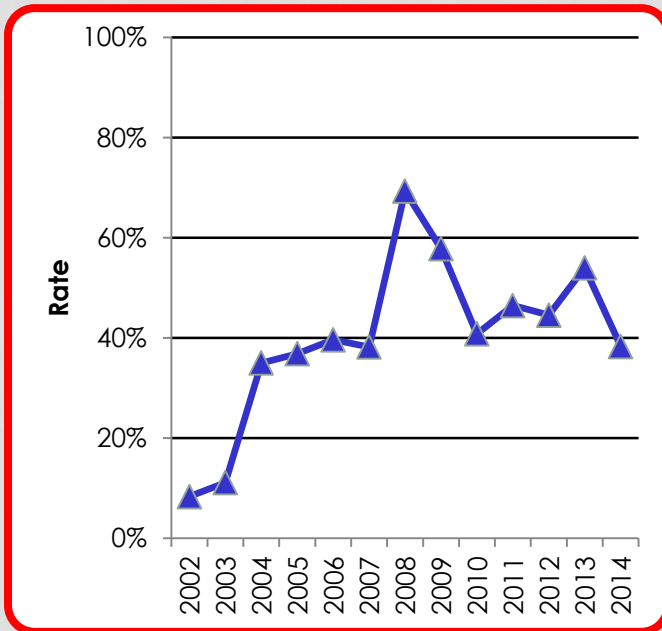
## UVM Children's Hospital:

Infants born (at UVM) to opioid dependent women with substance use disorder on **methadone** or **buprenorphine** at delivery (N = 1119)

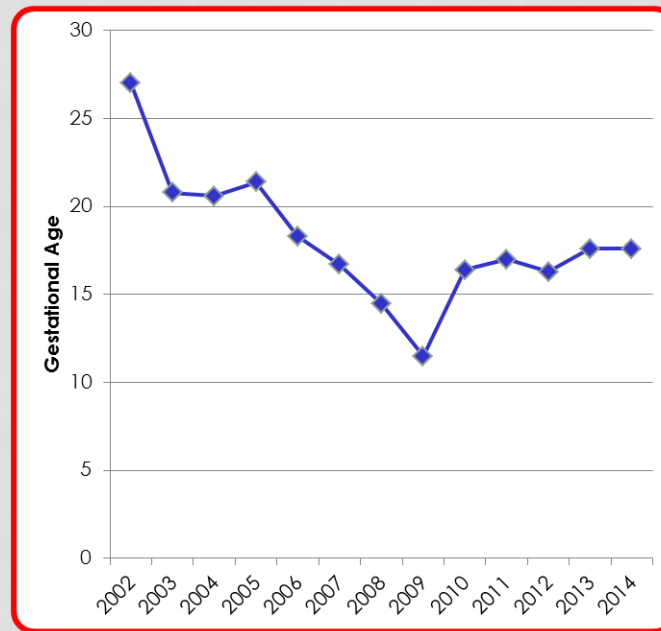


# UVM CHILDREN'S HOSPITAL TIMING OF INITIATION OF MEDICATION-ASSISTED TREATMENT(MAT)

% Mothers on MAT prior to  
conception

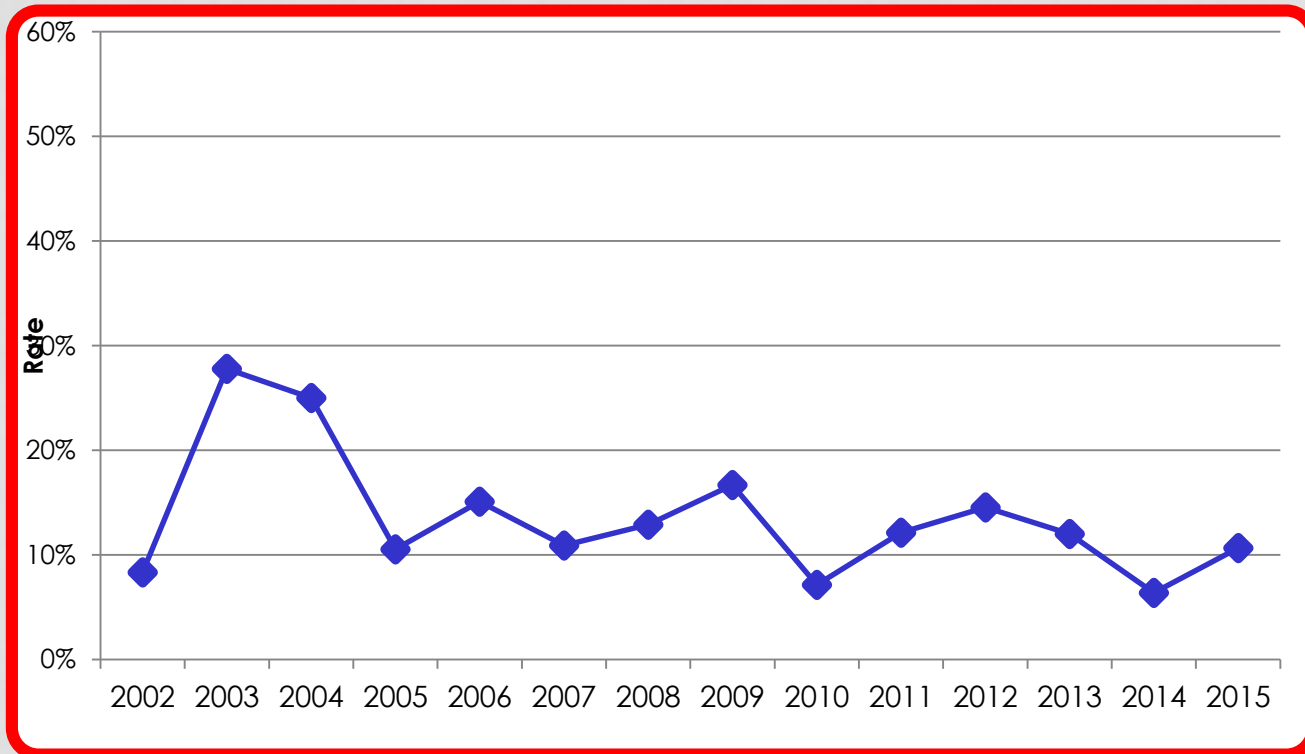


Average GA started MAT if  
not prior to conception



# UVM CHILDREN'S HOSPITAL

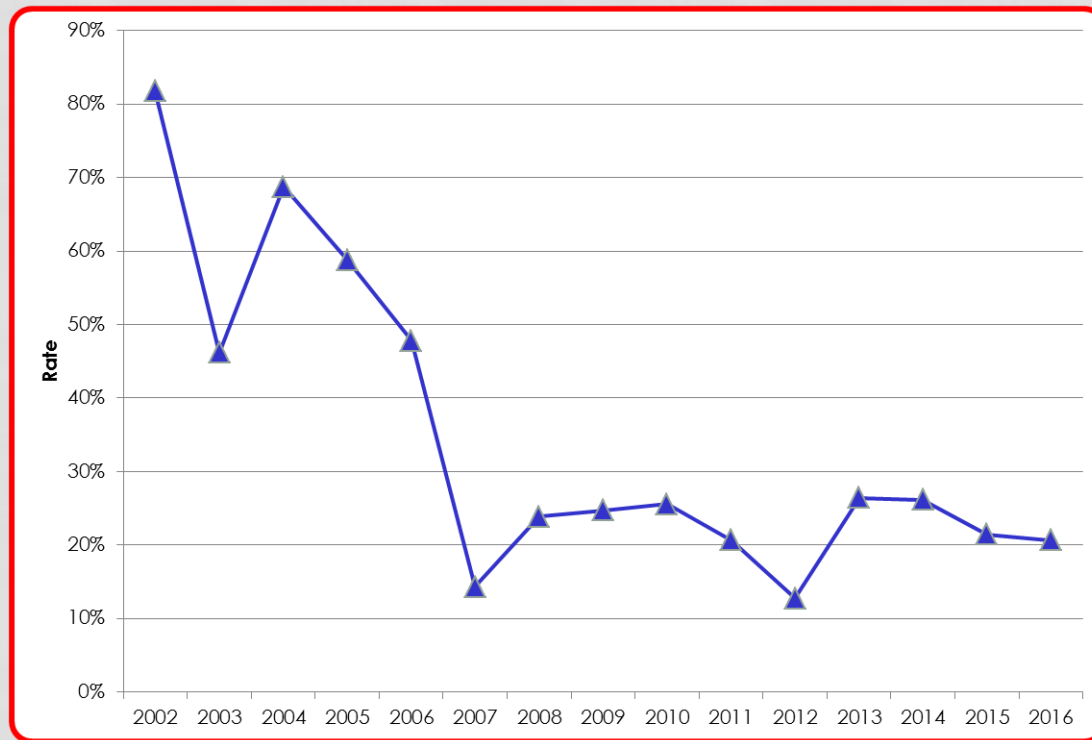
## % PREMATURE INFANTS BORN (AT UVM) TO WOMEN ON MAT



Average prematurity rate at UVM: 14%

# UVM Children's Hospital

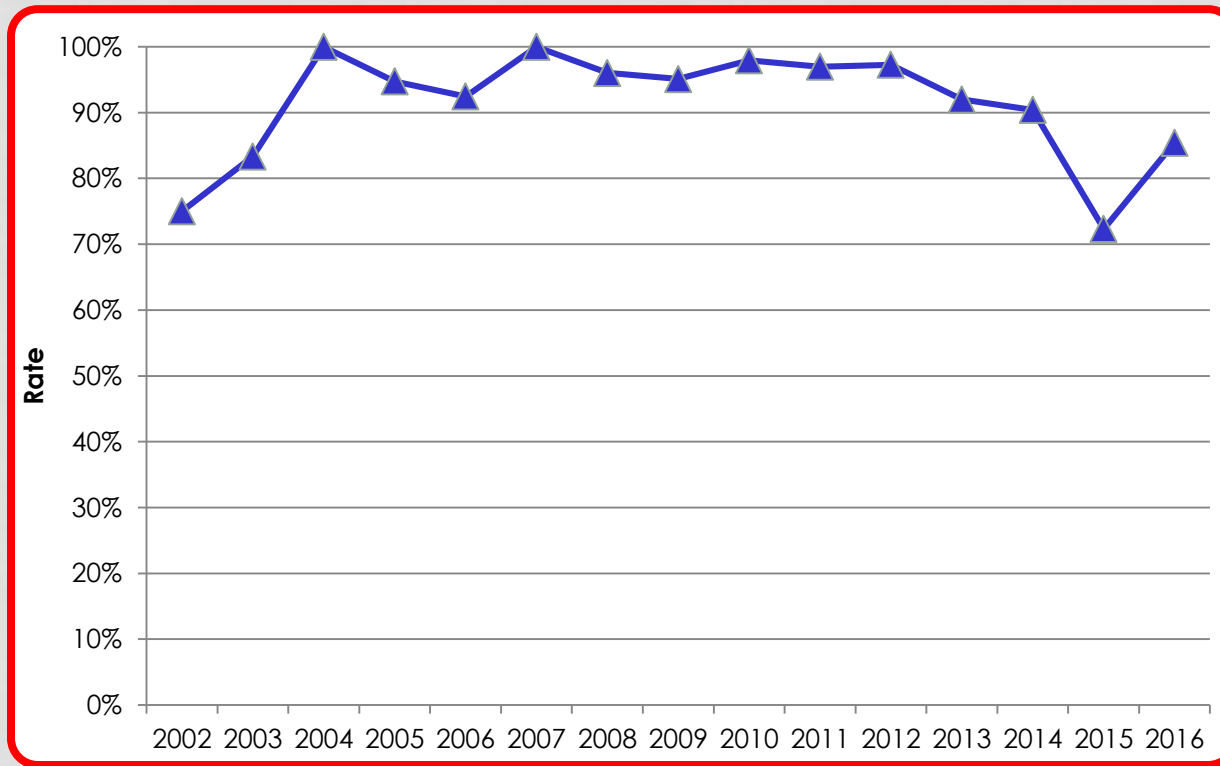
% Term newborns who received any pharmacologic therapy born to women on at UVM



National Average: 55%

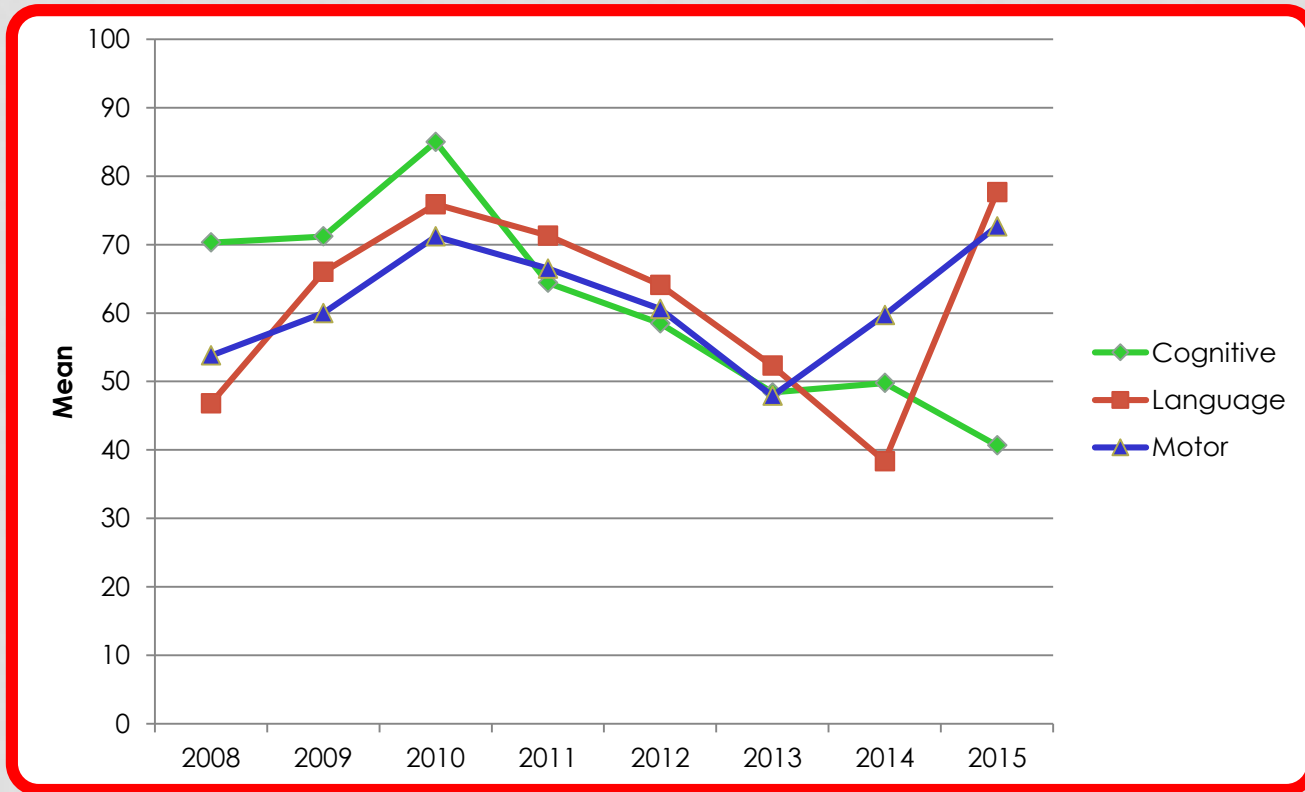
## UVM Children's Hospital

% Discharged with one or both parents: newborns born at UVM to women on MAT



# UVM CHILDREN'S HOSPITAL

BAYLEY III: MEAN PERCENTILE RANK (N=277) 7-14 MONTHS OF AGE





**The baby's health and safety depends upon  
the mother's health, the family's health**





# RiseVT Presentation to Community STAT Group

December 21<sup>st</sup>, 2017

Jill Berry Bowen, CEO  
Northwestern Medical Center &  
RiseVT Board Chair

# RiseVT is a *Movement!*

## **Our Franklin Grand Isle**

### **RiseVT Vision:**

To Embrace Healthy  
Lifestyles.

### **Our Statewide**

### **RiseVT Vision:**

Vermont will be  
recognized as  
the healthiest state  
in the nation  
with healthy living  
the norm.



We developed a "stairway speech" for consistent messaging:

**RiseVT is a  
community  
collaborative to  
embrace healthier  
lifestyles, improve  
the quality of life,  
and lower  
healthcare costs  
where we live,  
work, play, and  
learn.**



# The RiseVT Roadmap to a Healthier Future

## Getting Started:

- Develop relationships between local stakeholders;
- Initial assessment of interest in pursuing primary prevention;
- Convene a diverse community group of leaders/stakeholders.

## Understanding the Data:

- Review the local Community Health Needs Assessment;
- Review the VDH data specific to the service area;
- Review the One Care VT data specific to the service area;
- Review other relevant qualitative and quantitative data;

## Inventorying Existing Resources & Readiness:

- Are the right people at the table for this priority?
- What is currently being done in the community around the priority?
- What infrastructure exists that can help with the priority?
- Who can bring what resources to the effort to address the priority?

## Deciding to Move Forward:

- What stands out in the data as pressing priorities?
- Is there a priority the group wants to tackle together?
- Will the group commit to working together on this issue?

## Conduct Results Based Accountability Process:

- Secure a facilitator trained in the RBA/Turn the Curve Process;
- Have diverse community group work through the RBA process;
- Identify desired outcomes, specific measures to be used, how progress will be measured, and long–mid– and short-term goals.

## Drafting An Action Plan:

- What does best practice say will positively impact the priority to achieve the identified outcomes?
- What actions should be taken by who and by when?

### Finalize the Action Plan:

- Organize RBA, draft action steps, and steps to align with EPODE methodology into a formal written action plan with specific timelines and point people for each action item;
- Create a dashboard of long-, mid-, and short-term indicators to track the progress.

### Aligning with the EPODE Pillars:

- Plan how you will foster political support of your efforts;
- Identify how you will connect with the Scientific Advisory Council;
- Plan the development/expansion of public/private partnerships;
- Begin to plan a social marketing campaign (including social media) as a strategy to facilitate behavior change relating to priority;

### Evolving the Structure:

- Reassess if the right people are engaged, changing as needed;
- Create an Executive Committee to steer local efforts;
- Create a Community Advisory Group to provide insight, advice, assistance, and connections across sectors within the community;

### Pursuing the Resources:

- Revisit initial inventory of resources and engage partners in the effort to make use of existing staffing, funding, facilities, events, tools, communication vehicles, and other assets to create a shared approach to implementing the action plan;

### Evaluation:

- Collect and review participation and engagement measures;
- Monitor progress toward short-, mid-, and long-term goals;
- Re-assess and refine action plan based on progress to ensure outcomes;
- Arrange for an EPODE assessment of approach and progress.

### Launch and Sustain the Movement!

- Refine action steps based on resources;
- Launch efforts, including communication blitz;
- Foster quick wins with individuals, schools, towns, & businesses;
- Work through action plan with ongoing monitoring and mid course correction for continuous improvement based on learnings



RiseVT has helped establish primary prevention as a valued strategy within our Accountable Community for Health in northwestern Vermont.





## Ongoing Measurement of Engagement

### WHO'S ALREADY RISING?



**18997**

**PEOPLE**

[VIEW ALL](#)



**46**

**BUSINESSES**

[VIEW ALL](#)



**16**

**SCHOOLS**

[VIEW ALL](#)



**9**

**COMMUNITIES**

[VIEW ALL](#)



# RiseVT is Part of Population Health

## FY'16 Population Health Projects: Progress over 9 Months

Primary Care & Care Management	Year to Date	Goal
HCAHPS Care Transition from hospital to home, with continuing care support	61.88	61.63%
% change in avoidable visits with charge level of 1,2, or 3 (of 6 levels)	-21.02%	5% reduction in avoidable visits
Readmission to NMC for all-cause conditions	6.99%	≤ 9.2 %
Average length of stay for admitted patients, excluding swing beds and observation patients	2.91	≤ 3.23
Screening for Clinical Depression and Follow-up Plan	69.23%	61.39%
Adult Weight Screening & Follow-up	52%	73.54%
Falls: Screening for Fall Risk	43%	39.99%
Blood Pressure Screening	37%	59.58%
Lifestyle Medicine Clinic Pilots	Year to Date	Goal
Average weight-loss per at-risk cohort participant	9 pounds	8 pounds
Average waist circumference reduction per at-risk cohort participant	1.5 inches	1.5 inches
Average cholesterol reduction per at-risk cohort participant	12.0 point decrease	13.3 point decrease
Average systolic/diastolic blood pressure reduction per at-risk cohort participant	2.25 systolic 1.06 diastolic	12 systolic 6 diastolic

Wellness Specialist Embedded in School	Year to Date	Goal
Number of students walking or biking to/from school in targeted at-risk school	22% increase (32% up from 10%)	20% increase
Number of staff involved in wellness program in targeted at-risk school	Now at 100%	25% increase
Number of student and staff using school walking path in targeted at risk school	Now at 100%	30% increase
Healthy Roots Expansion	Year to Date	Goal
Food distribution sites providing gleaned healthy fresh local foods	10	5
Pounds of healthy food gleaned from local farms and consumed by vulnerable populations	2,853	1,500
Local counties served by online farmers' market with fresh local food	1 - had to rebuild Franklin County	2
Grand Isle residents served by online farmers' market	0	100
Grand Isle growers/producers participating in online farmers' market	0	8
Growers using the "season extending" cold storage site	7	6
Continued Reduction in Tobacco Use	Year to Date	Goal
Percent of F/GI adult non-smokers not exposed to second hand smoke	No new BRFs Data yet	55%
Percent of adult tobacco users in F/GI making a quit attempt in year	No new BRFs Data yet	62%
Municipalities addressing youth prevention through advertising, or other point of sale/retail options	Swanton, Enosburg future possibilities	1

NMC saw positive progress with population health indicators for an FY'16 project with GMCB.

# Our Population Indicators

BRFSS (2014-15) or YRBS (2015)	FR (%)	GI (%)	VT Current (%)	US Current (%)	Vermont Target (%)	RiseVT Target (July 1, 2019)
% of adults (20+) who are obese	30	24	25	29	20	29%/23%
% of adolescents in grades 9-12 who are obese	16	19	12	14	8	15%/18%
% of adults eating fruit 2 or more times daily	33	26	32	29	45	35/28
% of adolescents in grades 9-12 eating fruit 2 or more times daily	31	28	34	32	40	33/30
% of adults eating vegetables 3 or more times daily	18	15	20	17	35	20/16
% of adolescents in grades 9-12 eating vegetables 3 or more times daily	13	16	18	15	20	15/16
% of adults meeting aerobic physical activity guidelines	49	60	59	51	65	50/61
% of adults with no leisure time aerobic physical activity	26	20	21	26	15	26/20
% of adolescents in grades 9-12 meeting physical activity guidelines	25	22	23	27	30	27/24
% of students who agree that in their community they feel like they matter to people. (protective factor)	FRCE 46 FRNE 48 FRNW 35 FRW 45	48	50	N/A	N/A	1% each school
% of adults exposed to second-hand smoke	50	N/A	46	37.8 (2005-08)	35	45
Increase number of eligible families enrolled in WIC (WIC data)	1,379 June 2017	N/A				1,480 (July 1, 2018)
Increase % of infants being breastfed (birth certificate data)	83% Quarter ending 12/2016		90% Quarter ending 12/2016			85%
Decrease % of women using tobacco during pregnancy (birth certificate data)	19% Quarter ending 12/2016		17% Quarter ending 12/2016			15%
Increase number of Breastfeeding Friendly employers	52	2	N/A	N/A	N/A	62/4

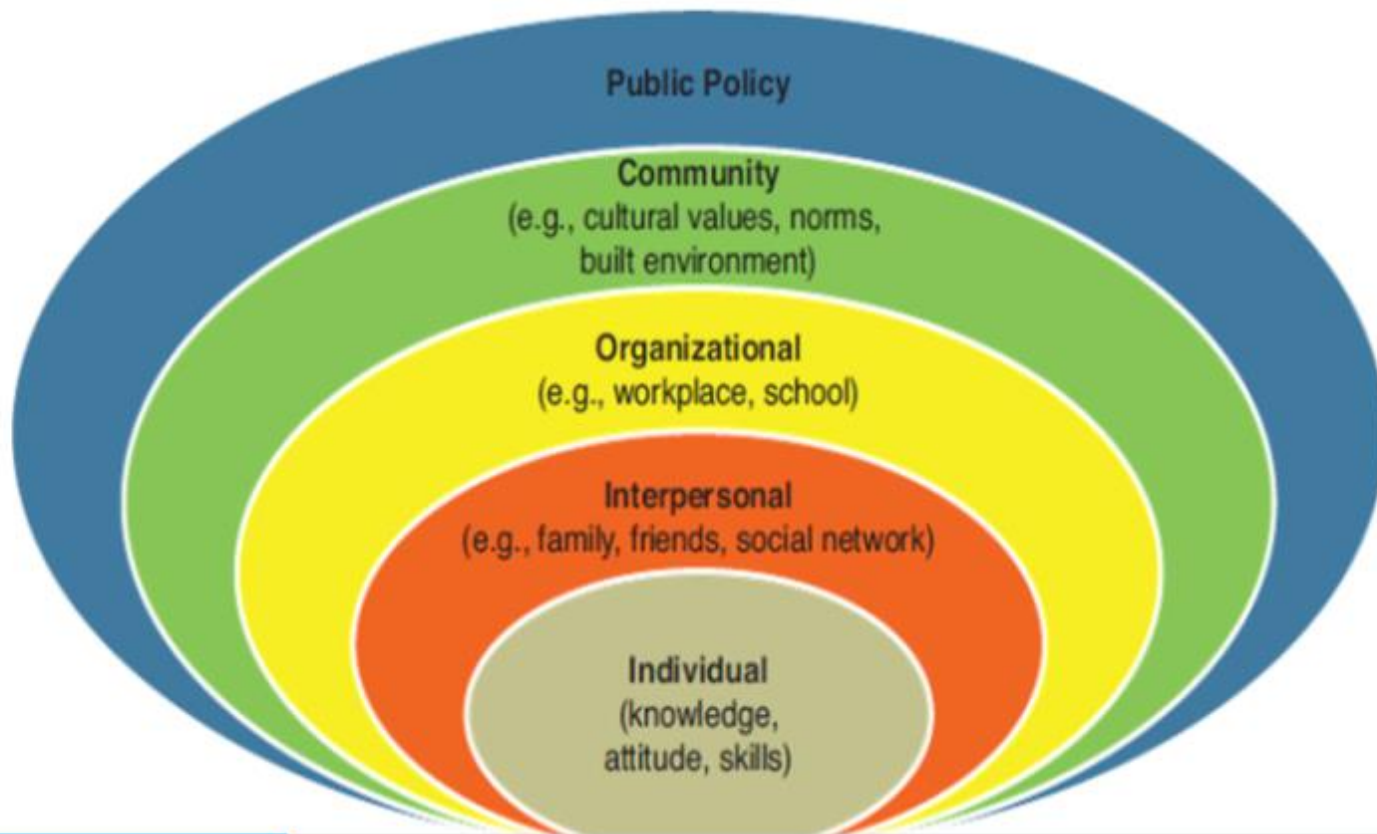
# Program Evaluation

**2018 Franklin Grand Isle RiseVT**  
**Results Based Accountability – Metrics to evaluate our impact**  
**IS ANYONE BETTER OFF?**

	Numerical Target	GOAL: % Increase/decrease
<b>Individuals</b>	60 NEW PEOPLE	30% decreased their risk factors
		40% meet their 3 month goal
<b>Schools</b>	16 SCHOOLS	75% have active wellness committees (meet 4x/year)
		12.5% of schools increase their <u>wellsat</u> score (VDH tool to grade school wellness policies)
<b>Classrooms</b>	30	50% are at silver or above by end of school year
<b>Worksites</b>	55 WORKSITES (currently 46)	30% increase in scorecard level
	20 Policies @ worksites	50% NEW fully implemented wellness policies
		Each of our 55 worksites has 50% of employees engaged in worksite wellness. ( <u>defined</u> as participation in at least one wellness initiative offered at work).
<b>Municipalities</b>	9 Municipalities	90% increase in scorecard level
		50% of the assessments performed moved forward to action

# Socio-Ecological Model

## Vermont's Prevention Model: Socio-ecological Model





# CDC's Evidence-Based Approaches



**Centers for Disease  
Control and Prevention**  
National Center for  
Health Statistics



## **Increasing Physical Activity: Built Environment Approaches**

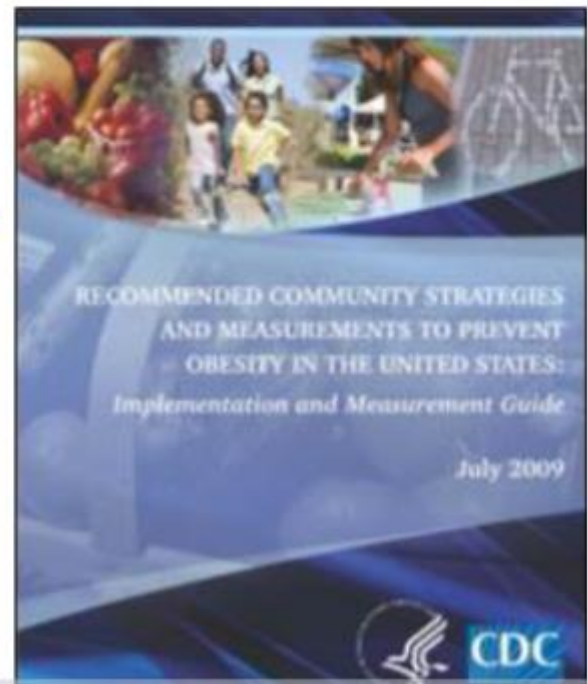


### **Community Preventive Services Task Force Recommendation**

The Community Preventive Services Task Force recommends built environment strategies combining one or more intervention approaches to improve pedestrian or bicycle transportation systems with one or more land use and environmental design interventions based on sufficient evidence of effectiveness in increasing physical activity. Their recommendation is based on a systematic review of all available evidence.

### **Facts about Physical Activity**

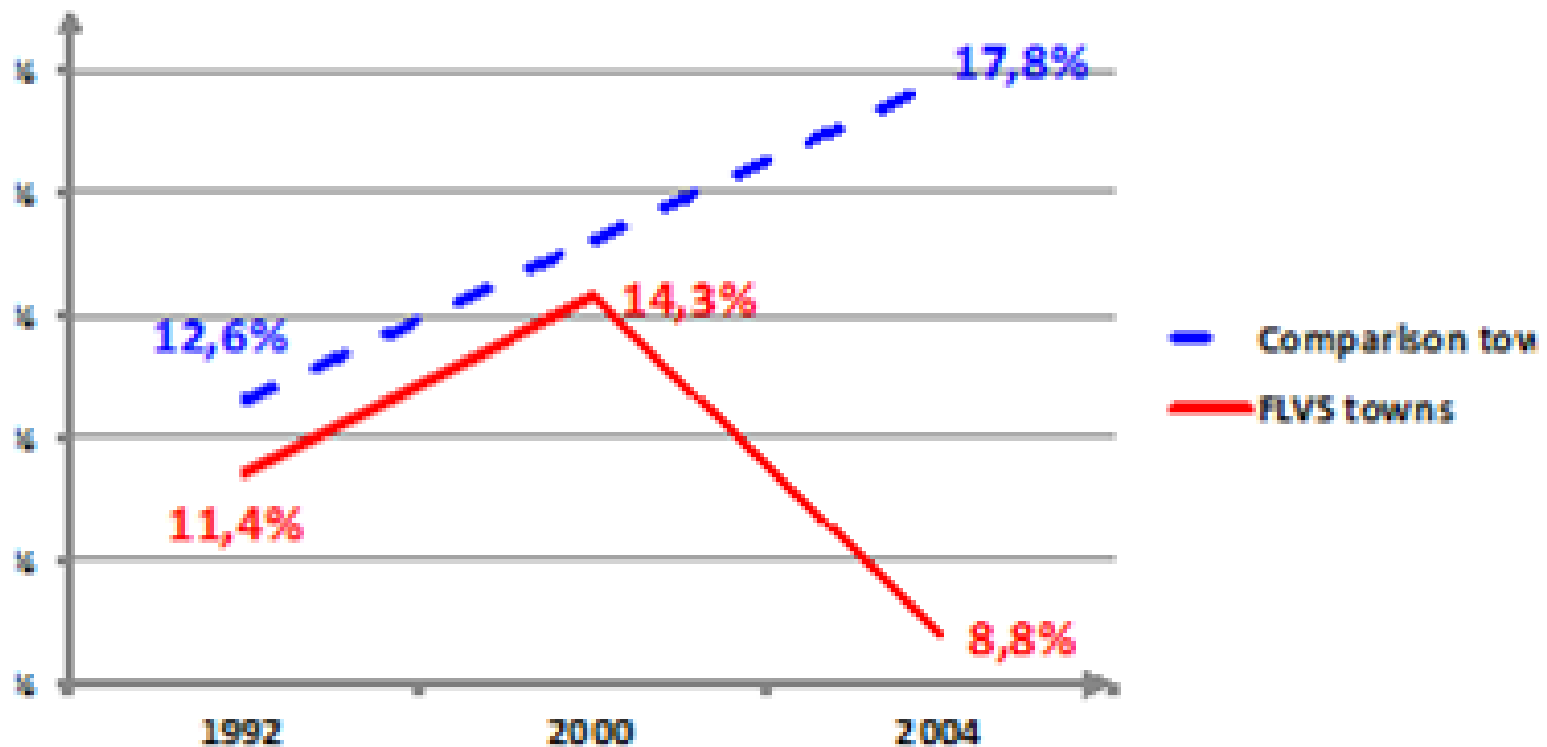
Despite the benefits, less than half of all adults, and 3 in 10 high school students in the United States, get the recommended daily amounts of physical activity.<sup>2,7</sup>



# EPODE's impact on children overweight & obesity

## Results FLVS, 1992 – 2004

Prevalence of Overweight and Obesity



(1) *Romon & Al., Public Health Nutrition, 2009; 12: 1735–1742*

# The EPODE Model



# EPODE Pillars of Success





## Building Resilient Communities to Address ACEs



WELLNESS

ACCESS

EDUCATION

ENGAGEMENT

SELF-SUFFICIENCY

PARTNERSHIP

QUALITY

EFFICIENCY



"Community resilience is a measure of the sustained ability of a community to utilize available resources to respond to, withstand, and recover from adverse situations."



# Why Invest in A Healthier Future?

Embracing healthier lifestyles can have a significant impact on healthcare costs and quality of life.



## The Research-Based Reality:

“For every dollar we spend on prevention, we see a five-to-one return on investment in just five years. We simply can't fix our economy without it.”

-- The Prevention Institute

## Examples of Our Community Embracing Healthy Habits



*2017 Heart Walk with NMC and Vermont Precision Tools employees*

- RiseVT is actively working with 46 businesses, fostering employer-based **wellness initiatives for over 3700 employees**;
- RiseVT created the **Small Business Umbrella** (SBU) in St. Albans for micro businesses (less than 15 employees) in 2016 and it is being replicated in Enosburg and Swanton in 2017.
- The Mayor proclaimed St. Albans a "**breast feeding friendly city**" as a result of the SBU initiative which boosted the number of breast feeding friendly businesses from 4 to more than 50.

## Examples of Our Community Embracing Healthy Habits



*RiseVT assisting with healthy community design in Swanton.*

- RiseVT's work with 9 municipalities has led to the **installation of signage** around community parks and paths, a **complete streets design in Swanton**, and the development of **the first sidewalks in Highgate**.
- This year RiseVT is working to assist in advancing **20 policies in municipalities**.



## Examples of Our Community Embracing Healthy Habits



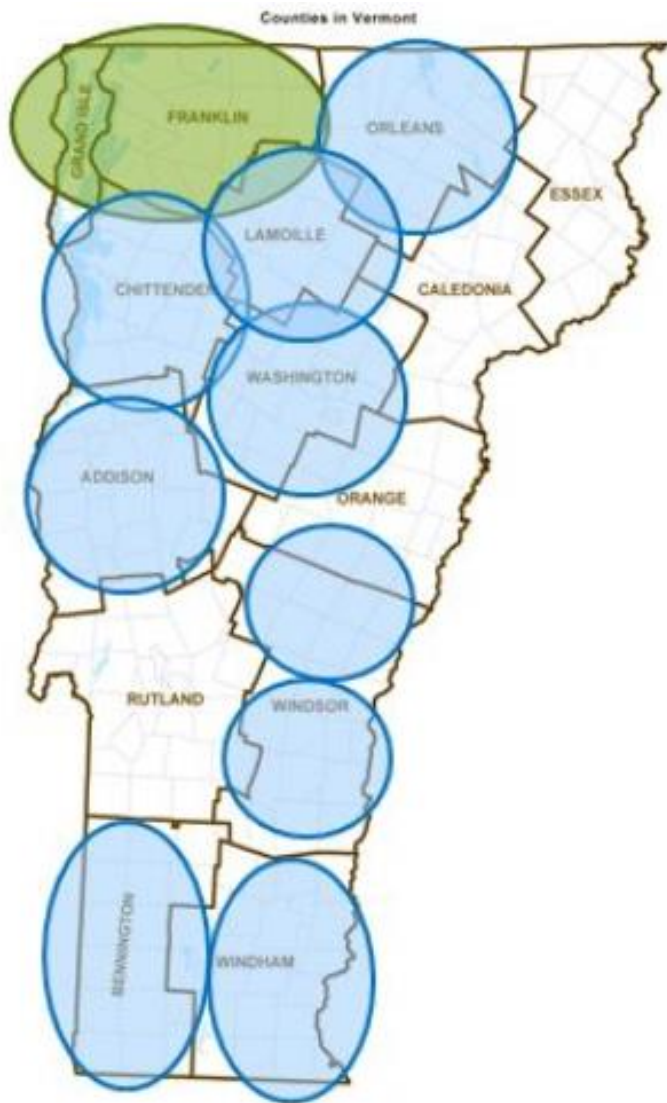
*Local school children and parents on the walking school bus.*

- RiseVT is partnering with 16 schools in our region which has led to a greater levels of engagement in **Safe Routes to School**.
- RiseVT has increased the capacity of Local Motion in our region, leading to over **2000 children trained in bike safety** and having access to helmets.
- RiseVT influenced **extended days in 2 schools** to provide children with more opportunities to move and play.
- RiseVT was awarded a Voices For Healthy Kids Grant to support grassroots support for **wellness policy creation and adoption by school boards**.

# RiseVT – An Exciting Future

**Moving Forward with**





## Statewide RiseVT Board of Directors

- **Jill Bowen**, CEO of Northwestern Medical Center;
- **Eileen Whalen**, COO of UVMMC;
- **Steve Gordon**, CEO of Brattleboro Memorial;
- **Don George**, CEO of BC/BS;
- **Dr. Mark Levine**, Commissioner of Health;
- **Todd Moore**, CEO of OneCareVT;
- **Chris Hickey**, NMC Chief Financial Officer
- **Winton Goodrich**, Superintendent of Schools, Franklin Northwest
- **Dr. Deanne Haag**, Pediatrician; and
- **Janet McCarthy**, Franklin County Home Health Agency, NMC Board, OneCareVT Board
- **Lisa Ventriss**, Executive Director of Vermont Business Roundtable
- **Beth Tanzman**, Executive Director, Vermont Blueprint for Health



# Keeping Healthy People Healthy

## Population Based Health Care Approach



➤ 44% of the population

➤ Focus: Maintain health through preventive care and community-based wellness activities

➤ Examples:

- Rise VT primary prevention program
- PCMH panel management
- Wellness campaigns (e.g. 3-40-50, health education and resources, wellness classes, parenting education)

➤ 6% of the population

➤ Focus: Address complex medical & social challenges by clarifying goals of care, developing action plans, & prioritizing tasks

➤ Examples:

- Complex care coordination: lead care coordinator, shared care plans, care conferences
- Community QI projects on hospice utilization
- Provider and patient education on palliative care (e.g. September OCV Grand Rounds)

➤ 40% of the population

➤ Focus: Optimize health and self-management of chronic disease

➤ Examples:

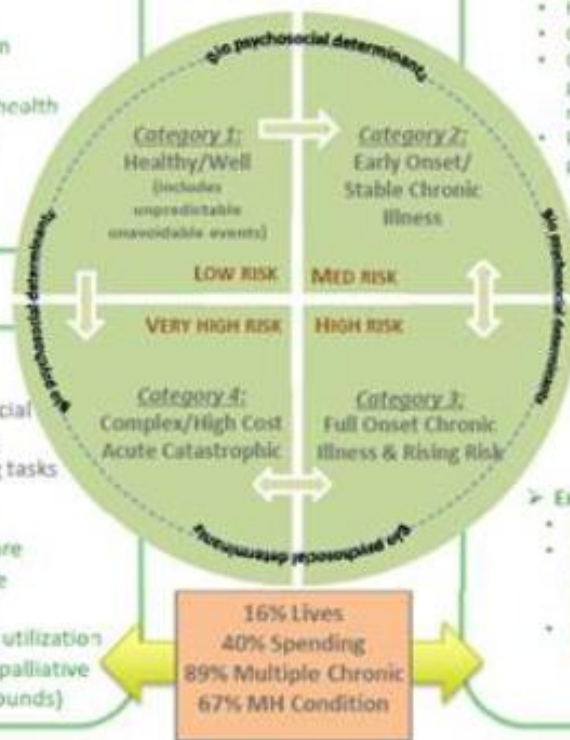
- HTN Peer-to-Peer Learning Collaborative
- QI Change Packages
- CHT resources (e.g. tobacco cessation, nutrition & physical activity coaching, diabetes self management)
- Patient resource library in Care Navigator (in progress)

➤ 10% of the population

➤ Focus: Active skill-building for chronic condition management; identify & address co-occurring SDoH

➤ Examples:

- Embedded mental health in primary care
- SDoH screening (e.g. food insecurity in/out patient peds; VT Self Sufficiency Outcomes Matrix for patients with complex CC needs)
- Care coordination: coordinate among care team members; shared care plans; transitions of care





# **Assembling an Exceptional Team**

**Elisabeth Fontaine, MD**  
Medical Director, RiseVT

**Marissa Parisi**  
Executive Director, RiseVT Statewide

**Emilia Wollenburg**  
Program Manager, RiseVT Statewide



# Next Steps

## **Advancing the statewide expansion of RiseVT**

- Onboarding the statewide staff in Dec & Jan
- Developing primary prevention population health indicators within the ACO
- Scaling up in 10 communities
- Hosting statewide education with EPODE

# Summary

- RiseVT is a movement to amplify the great work and community assets that already exist and to further support a common methodology for primary prevention.
- RiseVT is an evidence based primary prevention strategy that is adaptable and transferable to meet the community's needs.
- RiseVT places the emphasis on children and community based intervention, in a collective impact framework of a community working together with a common purpose.
- RiseVT is creating the conditions in our communities to support making the healthy choice the easy choice.

# Integrating Behavioral Health and MAT into Medical Services

Naya Pyskacek, LICSW, LADC

Director of Integrated Behavioral Health Programs

Community Health Centers of Burlington

12/21/17

# Community Health Centers of Burlington

Federally Qualified Health Center serving 29,0000 patients with medical, dental, and BH services

- Riverside Health Center
- Safe Harbor Health Center
- Pearl Street Clinic
- Champlain Island Health Center
- South End Health Center
- Good Health
- Winooski Family Health Center

# Integration of Behavioral Health into Primary Care at CHCB

- 2000: Started hiring additional social workers for clinical work.
- 2001: Building renovation. Created **POD model**. Clinical Social Workers integrated into the POD structure.
- 2002: Received our first **HRSA Mental Health/Substance Abuse expansion grant** to integrate mental health and substance abuse into primary care. Able to hire more clinical staff – Behavioral Health Consultation Model.
- 2003: Started providing **Buprenorphine treatment**
- 2008: Received our second **MH/SA Expansion grant**.
  - \* Hired an additional clinical social worker at Safe Harbor site to staff SHHC Housing First Program. Added psychiatry staff.

# BH integration

- 2013: Received a **SBIRT grant** to provide: screening, brief intervention, and referral to treatment
- 2014: Received our third MH/SA Expansion grant.
  - \* Adding child therapy, case managers, psychiatric nurse practitioner



# BH integration

- 2016: Received our fourth HRSA MH/SA Expansion grant – **SBIRT/MAT**:
  - Expands universal screening to adolescents
  - **Increases our buprenorphine physician prescribing time**
  - With this grant, our Buprenorphine Panel increased from 130 to over 374 patients. Dr. Beach Conger had largest expansion.
- Creates a **Pain Team** fashioned after the MAT team to monitor and support patients with chronic pain  
Hired Gloria French, RN to monitor panels:
  - Total patients on opioid analgesics at CHCB: 698
  - Patients with 90 mg or over MMEs: 175



# Current Behavioral Health Staff

## Behavioral Health Clinicians/Therapists Embedded into our Clinics = 19

- 10 LICSWs at our Riverside site – dually certified or licensed with AAP or LADC
- 2 at SHHC
- 1 at Pearl Street Clinic
- 1 at Champlain Island Health Center
- 3 at South End
- 1 Good Health
- 1 at Winooski Family Health

## Clinical Care Coordinators:

- **2.5 MAT Teams** for Spoke Services (OBOT) – Buprenorphine treatment, 2 Spoke RNs and 3 LADC Clinical Care Coordinators
- Pain Team RN

## Case Managers:

- 2 social work case managers

Psychiatry: 6 psychiatric providers (5 FTEs)

# Unique Model

## Primary Care Behavioral Health Model:

- ❖ Universal screening for all patients for depression and substance use
- ❖ BH is integrated into the team in the medical clinic
- ❖ We work alongside nurses and medical providers
- ❖ Integrated electronic medical record
- ❖ We can refer to in-house specialty MH/SA services in-house

# Embedded BH into primary care team: BH Consultation Model

- CHCB Delivery System Design in medical clinic: pods
- Integrated Team: Medical Providers, Nurses or MAs, and LICSW/LADCs
- *Allows for:*
  - Routine BH screening, brief intervention and referral as part of visit
  - BH integration at point of primary care visit
  - Curbside Consultation by BH to nurse and medical provider in real time

# Incorporating BH into the Chronic Care Model

- Population Focused approach to treating chronic conditions
- Allows us to provide more behavioral health services to a greater number of people by providing BH interventions during the medical visit – “tending the flock”
- Not all patients need the traditional “45 minute hour” of traditional psychotherapy – and we could not serve all of our patients with MH concerns with traditional models

# Increasing contacts

- If we provided traditional counseling only, we might help 200 – 300 people per year.
- With a stepped care model, we worked with over 2,500 BH patients last year
- 9,000 encounters

# “Warm Hand Off”

- Once Nurses do initial screening and a score is positive,
- Nurses can provide a “warm hand off” to Behavioral Health
- **The beauty of universal screening protocols is that:**
  - ❖ they are like standing orders
  - ❖ There is already an “order” by the medical provider to refer to BH if there is a positive screen.



# Primary Care BH: 20 – 30 mins BH Intervention by LICSW/LADCs

- Secondary Screenings
- Rapid Assessment: MH/SA
- Brief intervention
- Referral to Treatment/linkage to other resources
- Consultant to Patient and Medical Provider – provide “curbside consultation” in real time.



# Brief Interventions for:

- Depression/Anxiety
- Addiction
- Smoking cessation
- Insomnia
- Stress Reduction
- Other medical conditions that would benefit from BH/Behavioral medicine interventions
- Motivational Enhancement
- Self Management Goal Setting
- **SBIRT Model** for MH, SA, and health and behavior

# Primary Care BH Services for CHCB Patients

- Behavioral Health Consultation in medical clinic:
  - ❖ Starting point for referral to specialty services

*With referral to:*

- ✓ Co-occurring brief treatment, longer term therapy for mental health and addiction, groups, and trauma informed counseling including: EMDR, Seeking Safety group
- ✓ Case management
- ✓ Psychiatry
- ✓ MAT Services

# Screening for MAT in medical clinic

- Nurses
- Initial Screening: PHQ-2, Audit-C and Drug use question
- Behavioral Health
- Secondary Screening: PHQ-9, Full Audit, DAST-10, PCL-5, GAD-7 and others
- If pt inquiring about MAT – Treatment Needs Questionnaire (TNQ), OCACC multiparty release

# Screening for MAT

**TNQ score of 10 or less:** refer for further assessment by LICSW/LADC at CHCB.

- Psychosocial Assessment – ASAM risk assessment, level of care recommendation
- If OBOT appropriate – refer to MAT teams
- Stay at CHCB OBOT

**TNQ score of 11 or more: refer to HUB**

# MAT at CHCB

- 15 prescribing physicians
- 1 PMHNP
- 2 APPs
- 2.5 MAT Teams
- 374 patients receiving buprenorphine treatment
- Patients can access our co-occurring counseling, psychiatry services, and other case management services in addition to MAT team support.



# OCACC/Triage Team

- CHCB participates with Howard Center, UVMMC Family Practices, UVMMC Addiction Treatment Program, ADAP
- Collaborate on referrals and community response to treatment needs.

# Increasing Access

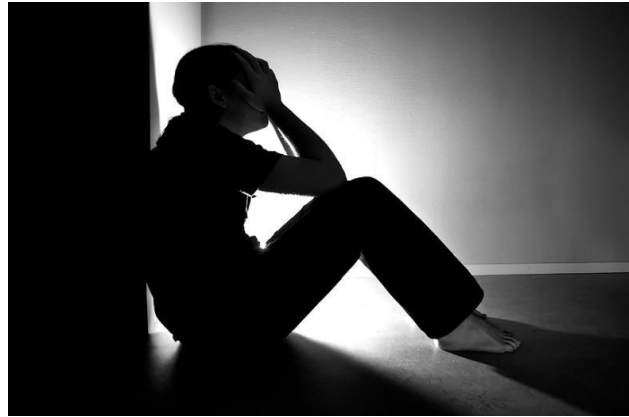
- MAT Teams – panel management, protocols, and team based care increases physicians willingness to increase the number of people to whom they prescribe
- Since October, 2016, we increased from 130 – 374 patients
- Community Collaboration – increases willingness of providers to prescribe because they know we can refer to another level of care

# References for Primary Care BH

- Blount, A., ED.D (1998). *Integrated Primary Care: the Future of Medical and Mental Health Collaboration*. New York: W.W. Norton and Company.
- Hunter, C.; Goodie, J.; Oordt, M.; Dobmeyer, A. (2009). *Integrated Behavioral Health in Primary Care. Step by Step Guidance For Assessment and Intervention*. Washington, D.C.: American Psychological Association.
- Lardiere, M.; Jones, E.; Perez, M. (2010). National Association of Community Health Centers. 2010 Assessment of behavioral health services provided in federally qualified health centers.
- Serrano, N., PsyD; Monden, K. Ph.D. (2011). The effect of behavioral health consultation on the care of depression by primary care clinicians. *Wisconsin Medical Journal*. 110 (3).
- Young, J., LICSW; Gilwee, J., MD; Holman, M. RHIA, CHDA; Messier, R. MT, MSA; Kelly, M., BA.; Kessler, R. Ph.D. (2012). Mental health, substance abuse, and health behavior intervention as part of the patient-centered medical home: a case study. *Translational Behavioral Medicine*. 2(3): 345-354.

# FamilySTAT

An introduction...



**High risk/high needs families who are struggling with addiction and are at risk of separation because of incarceration and/or death.**

## Immediate Response Team Identification (IRT)

FSD (Family Services Division) Intake Social Worker identifies a client

ESD (Economic Services Division) Reach Up Worker identifies a client

## Referral to:

Aime Baker  
Lund SA Case Manager at FSD

Kyla Boyce  
Howard Center Wellness Coach at ESD

## Assessment & Treatment {Parents}

Lund SA Clinician completes assessment if needed and/or coordinates with current preferred provider

Howard Center SA Clinician completes assessment and/or coordinates with current preferred provider

Parent(s) meet IRT criteria

Emergency Family Safety Planning (FSP) meeting to focus on the needs of the child(ren) while parent(s) focus on treatment.

Parent(s) who meet IRT criteria will be referred to the FamilyStat Service Coordination Team (which will meet monthly to review case progress)

## **Referral Source:**

- FSD (Family Services Division) clients are identified by the front end team (intake), with a focus on CF cases (CF = Child and Family; open support cases, non-court involved)
- ESD (Economic Services Division) Reach Up clients

## **Criteria to access FamilySTAT:**

- Parent(s) with a substance use disorder
- Child(ren) have been or are at high risk of being removed from the home
- FSD and/or Reach Up clients
- Parent(s) qualifies for residential, IOP (Intensive outpatient), Outpatient, or PHP (partial hospitalization program)
- Willingness to engage in treatment

## **Service Coordination looks at**

**(using the CPFST- Child Protection and Family Support Team model):**

- Treatment
- Housing
- Child Care
- Employment
- Other



## **FamilySTAT Service Coordination Team:**

**Meets *monthly* to review cases and includes:**

Sally Borden (KidSafe)	Liz Nault/Beth Maurer (FSD)	Peggy Heath/Jess Holmes/Leslie Stapleton (ESD)
Jackie Corbally	Jan Schamburger	Mitch Barron
Parent navigator (TBD)	Sarah Russell (BHA)	Jane Helmstetter
Ann Dillenbeck/Liz Mitchell	DOC (TBD)	Julie Coffey (STEPS)
Julie Ryley (DV Specialist, FSD)	Mark Ciociola (Voc Rehab)	Chittenden Clinic

## **How will the team track “Is anyone better off?”:**

- Outcomes oriented by reviewing progress via:
  - a) Risk Assessment and Risk Re-Assessments (FSD)
  - b) Self-Sufficiency Matrix (ESD)- includes housing, wellness, education, employment, community, etc.
  - c) Did child(ren) come into custody?
  - d) Time between removal from home and reunification
  - e) Timely access to treatment (documenting days between assessment of need and entry into treatment)
  - f) Was parent incarcerated?

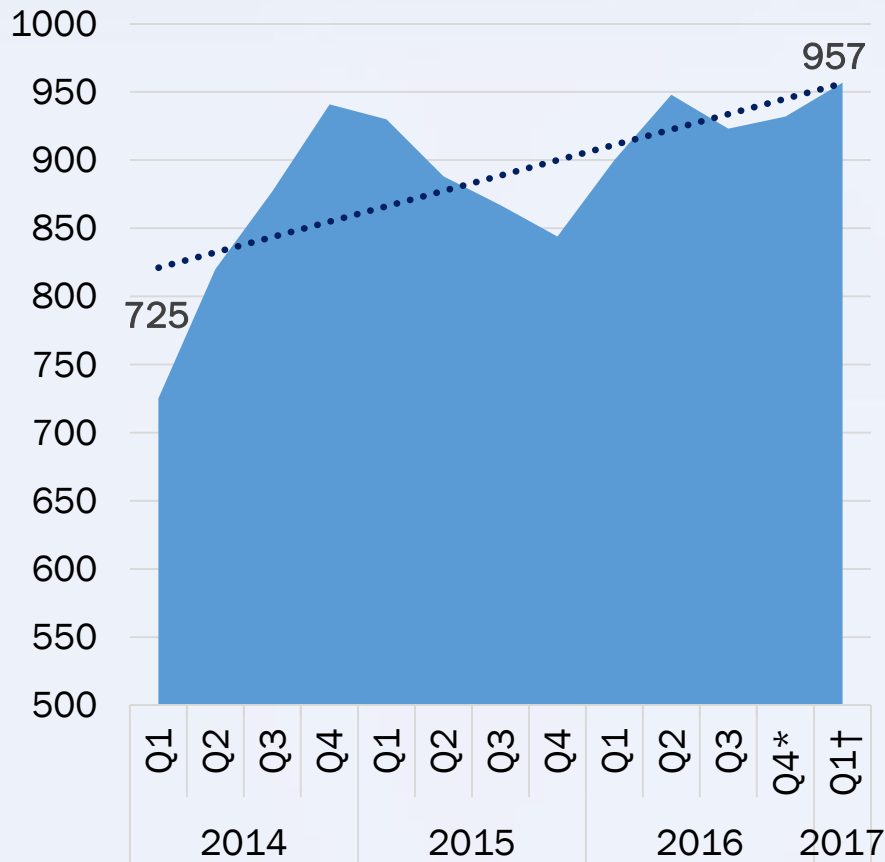


- Gaps remain in our system of care.
- We do not have safe beds/homes.
- We do not have adequate sober housing options (short and long term) for families.
- This model will not meet the needs of every parent in our county.
- The system needs to identify other community agencies who will serve people not a part of FamilySTAT.
- We do not currently have a universal method to capture overdose data on FamilySTAT clients.

# Chittenden Hub Average Treatment & Waitlist Volume 2014 - 2016

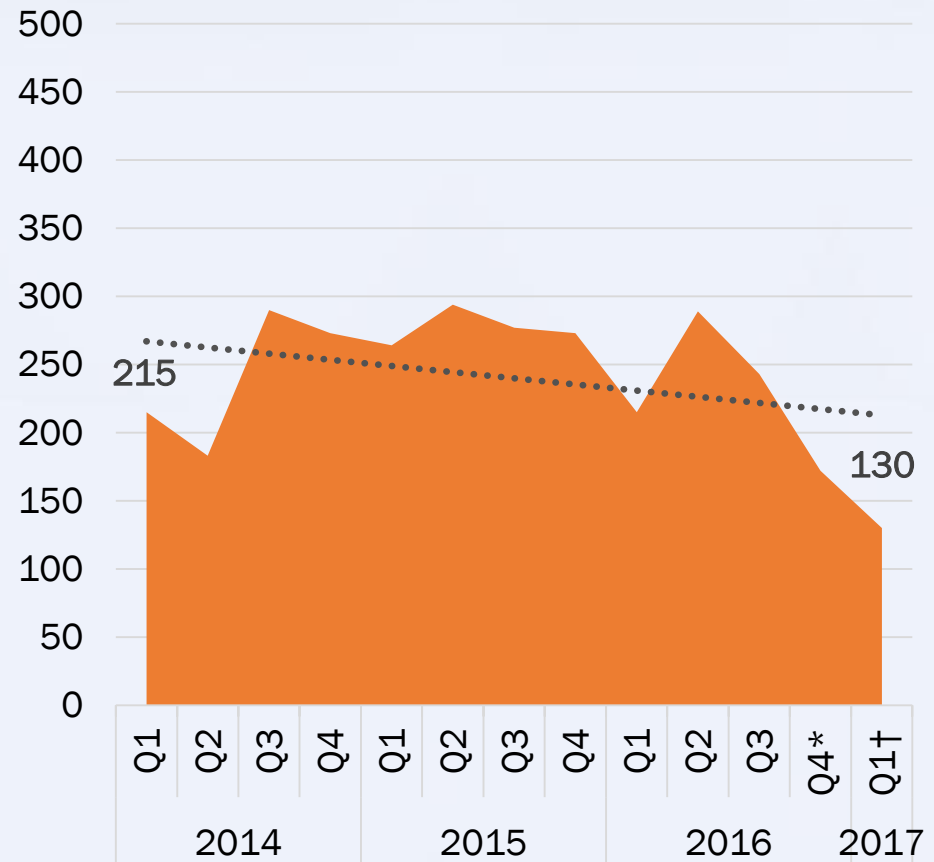
## Treatment

Average # of individuals receiving Hub MAT



## Waitlist

Average # of individuals awaiting treatment



Data Source: Vermont Department of Health

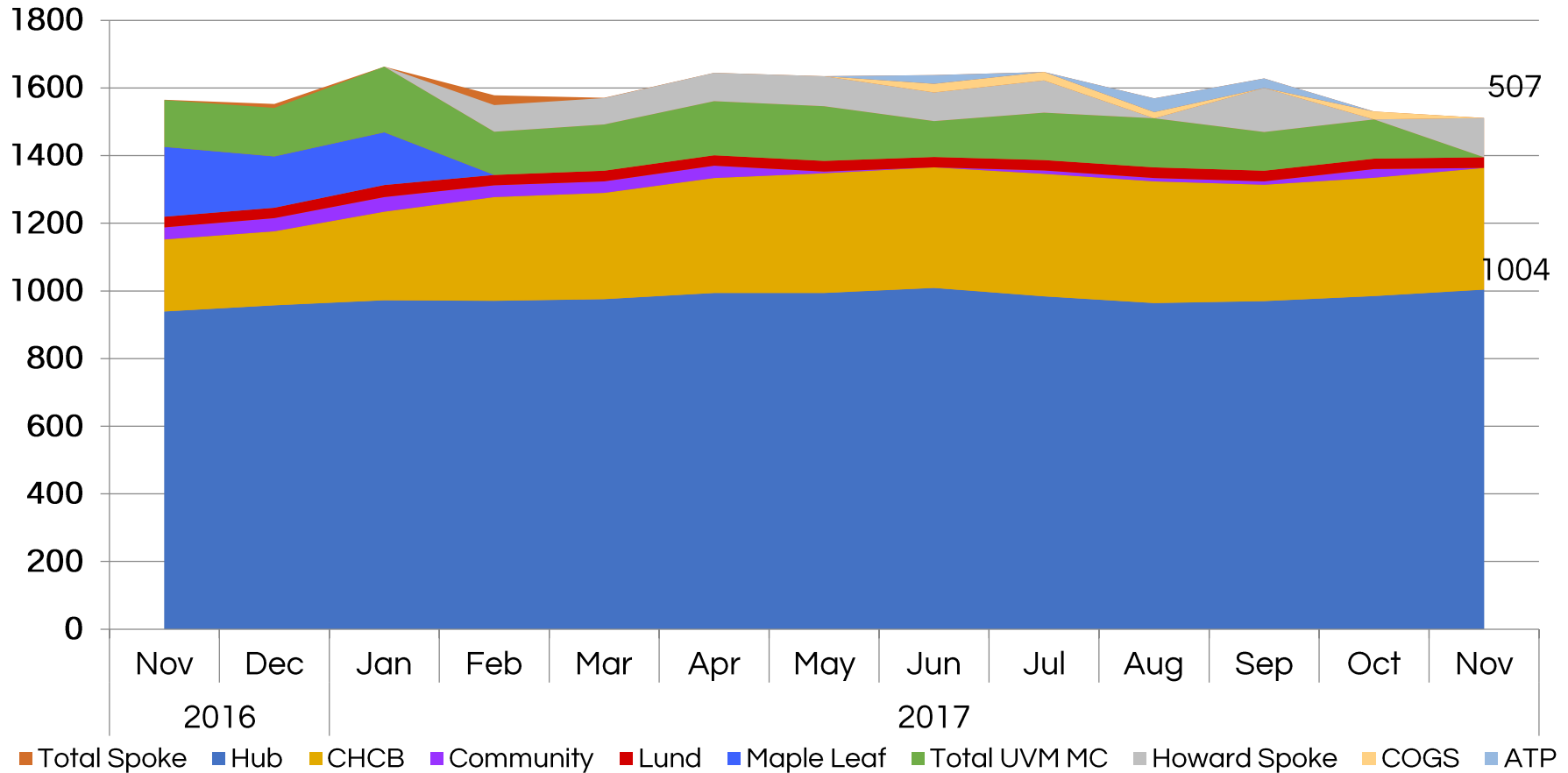
\* Data in Quarter 4, 2016 does not include data from December

† Data in Quarter 1, 2017 is preliminary and is subject to change



# Individuals Treated in Chitt. Cty. Hub & Spokes

## Individuals Receiving MAT in Chittenden Cty. Hub & Spokes, by Provider

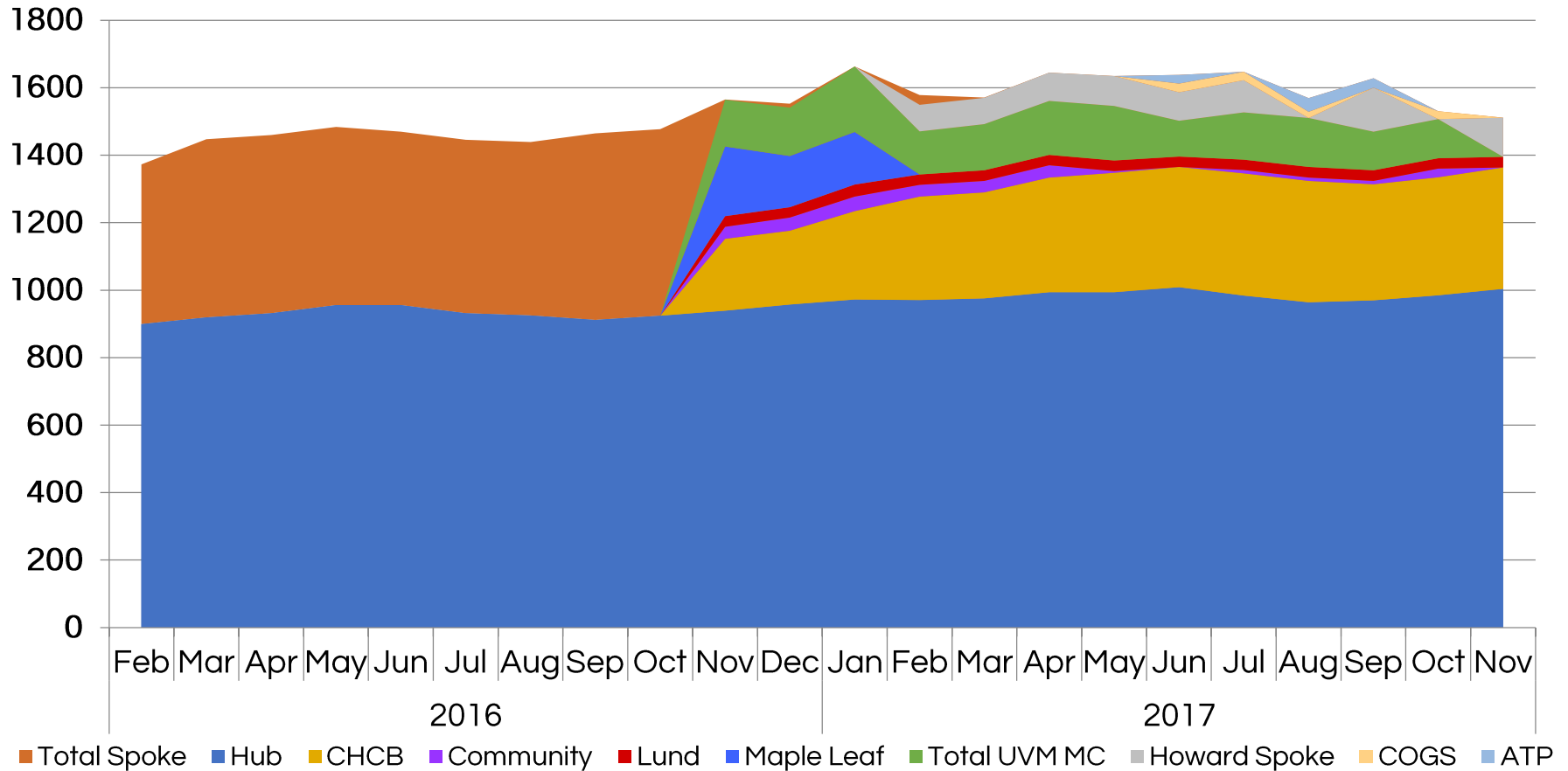


Data Source: [Vermont Department of Health](http://Vermont Department of Health) and Opioid Care Alliance of Chittenden County



# Individuals Treated in Chitt. Cty. Hub & Spokes

## Individuals Receiving MAT in Chittenden Cty. Hub & Spokes, by Provider

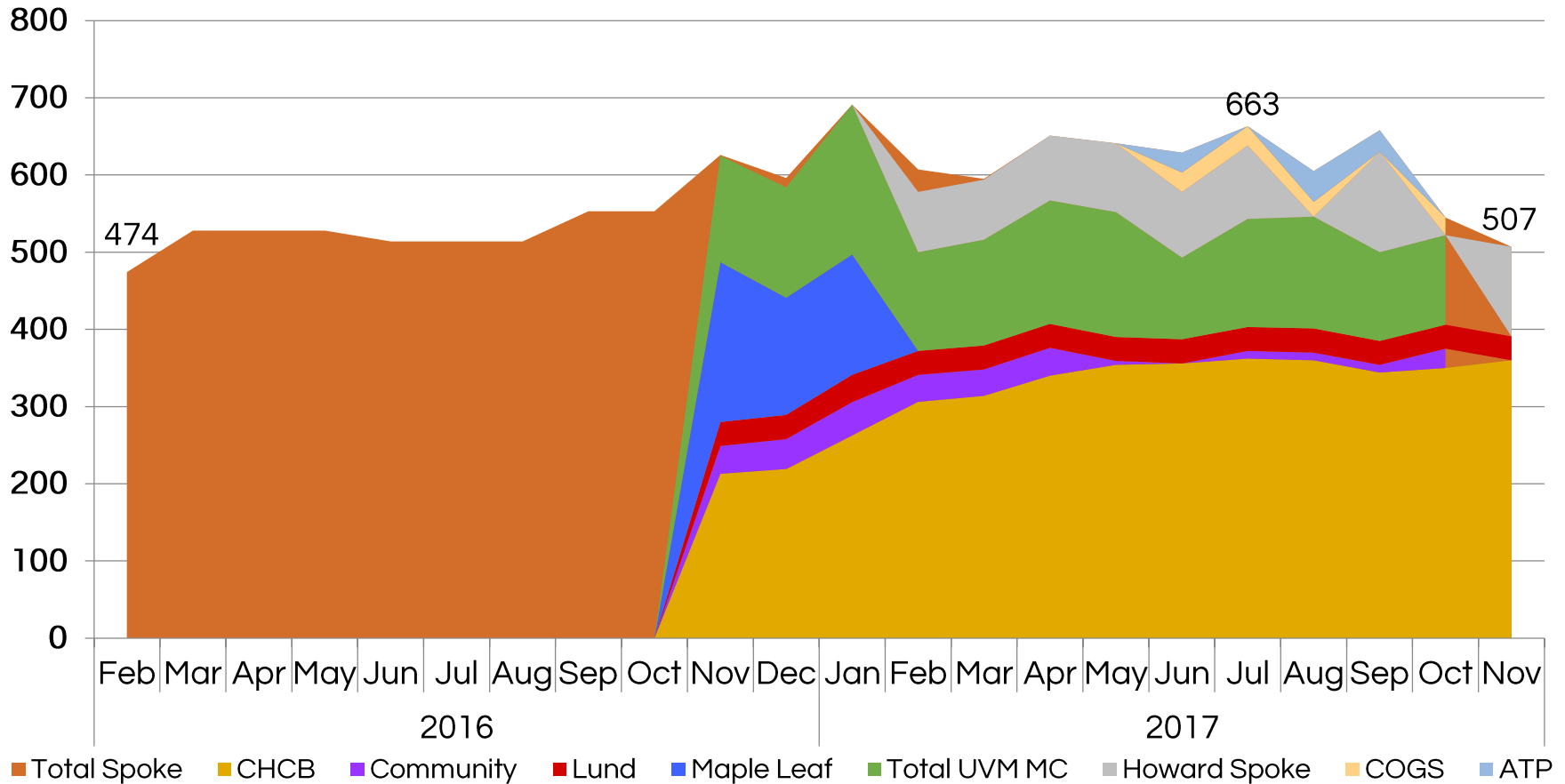


Data Source: [Vermont Department of Health](http://Vermont Department of Health) and Opioid Care Alliance of Chittenden County

# Individuals Treated in Chittenden Cty. Spokes



Individuals Receiving MAT in Chittenden County Spokes, by Provider



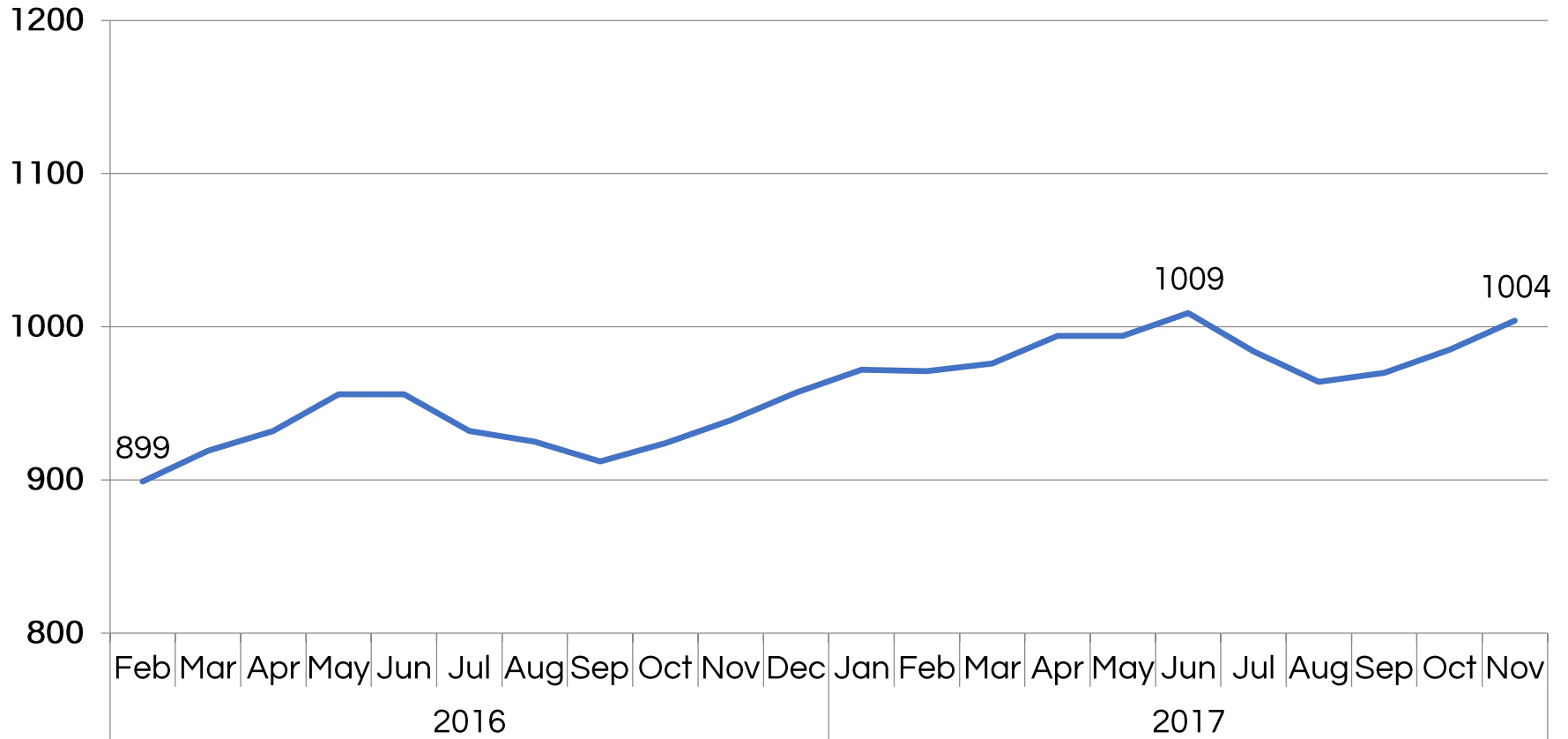
Data Source: [Vermont Department of Health](http://Vermont Department of Health) and Opioid Care Alliance of Chittenden County





# Individuals Treated in Chittenden Cty. Hub

Individuals Receiving MAT in Chittenden County Hub, by Month

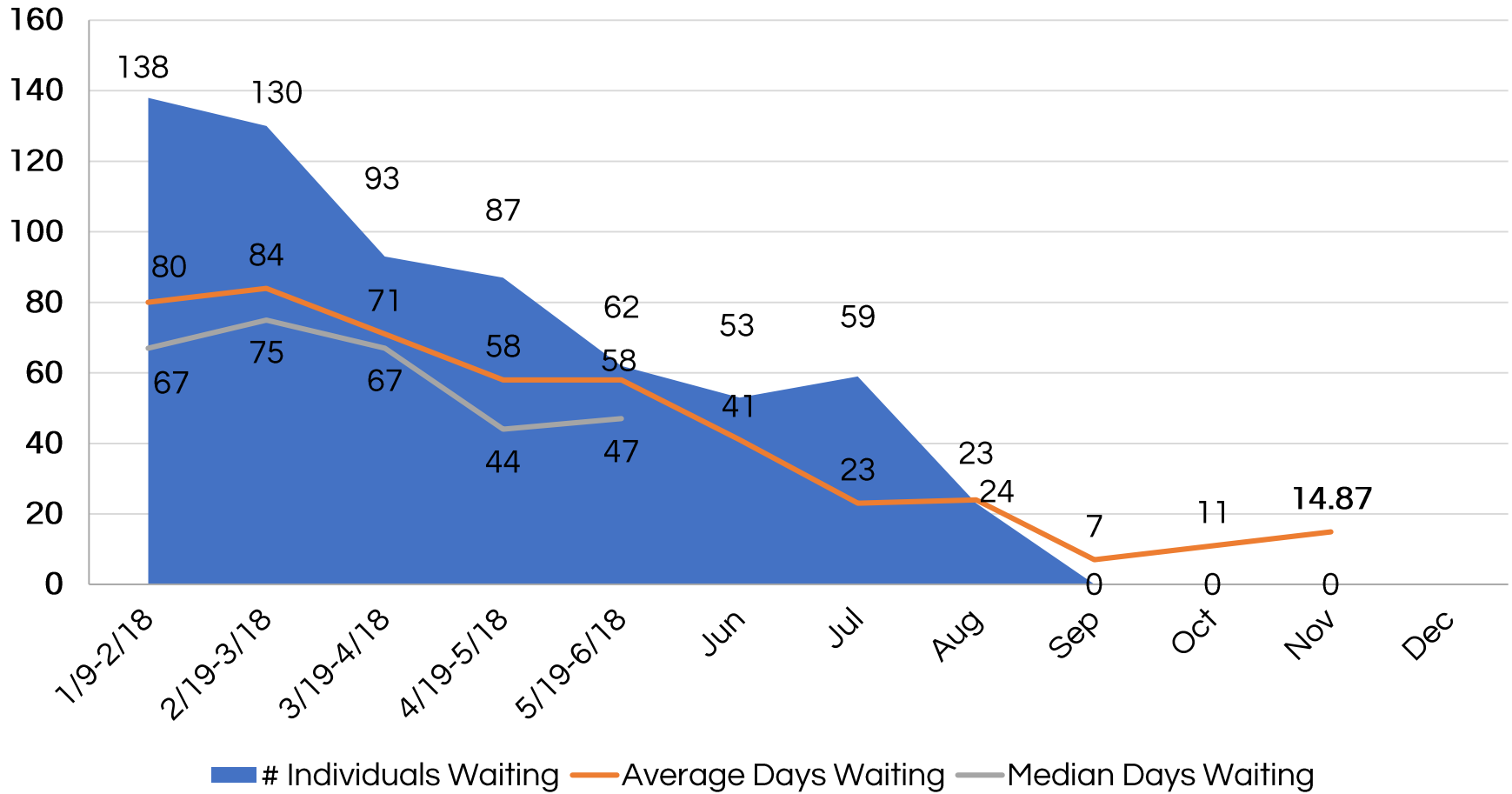


Data Source: [Vermont Department of Health](http://Vermont Department of Health) and Opioid Care Alliance of Chittenden County



# Chittenden Hub Waitlist Volume & Delay

Chittenden County Hub-Level Active Waitlist Volume & Average Wait Time

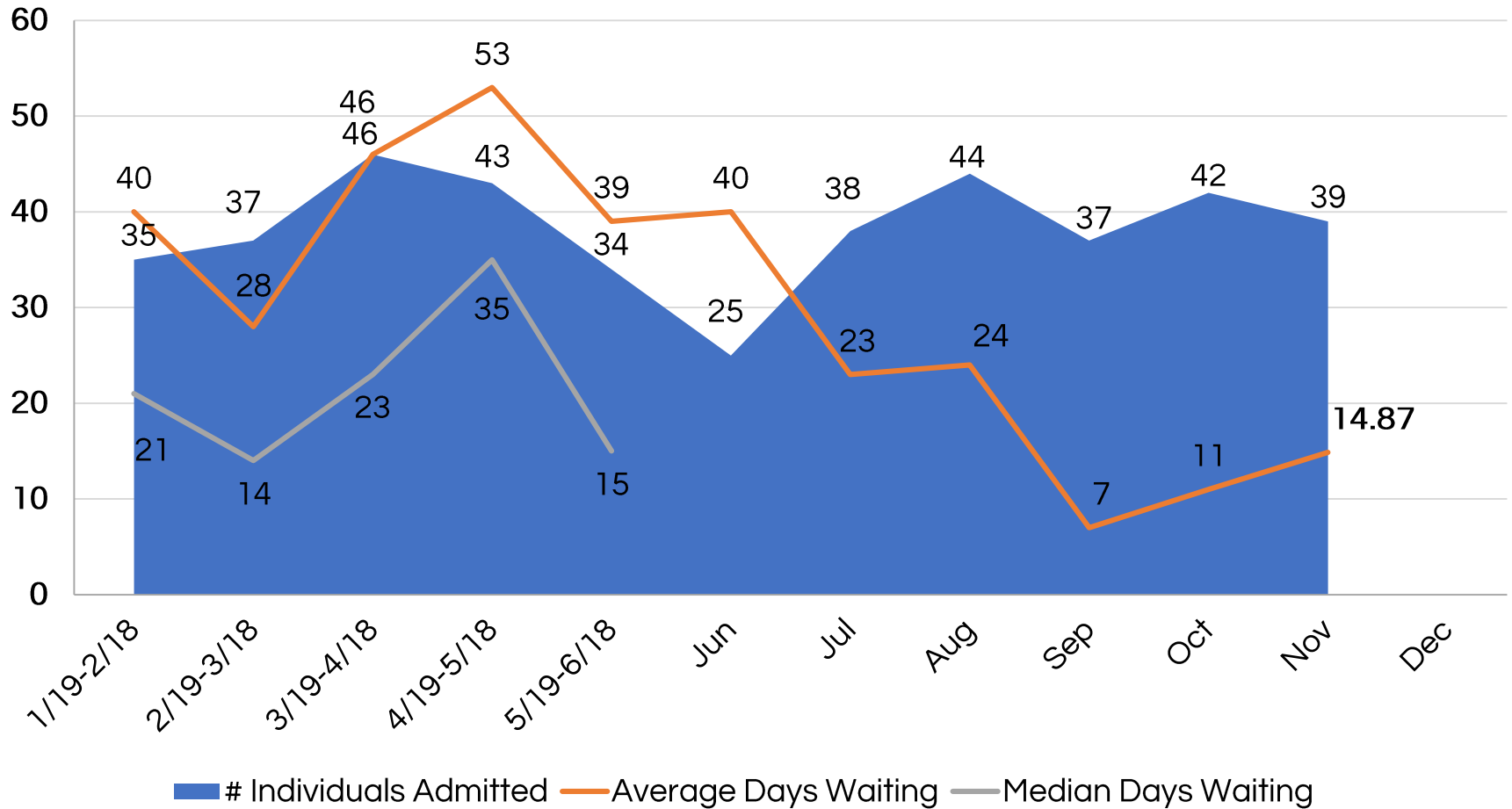


Data Source: Howard Center Triage Report



# Chittenden Hub Admission Volume & Delay

Chittenden County Hub-Level Admission Volume & Average Wait Time



Data Source: Howard Center Triage Report

# Burlington EMS Naloxone Administration Jan – Oct, 2016

## Medication Administered Report



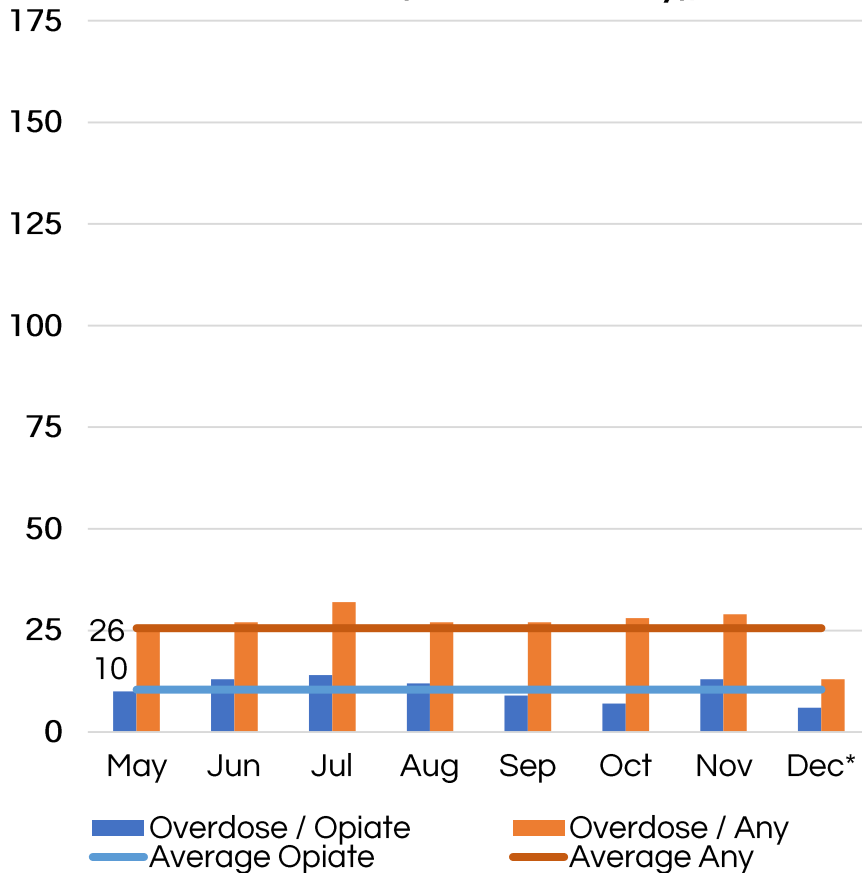
### Medication Administered Report From 01/01/16 To 10/25/16

Medication	# of Times Administered
Adenosine	6
Albuterol Sulfate	20
Amiodorone (Cordarone)	7
Aspirin (ASA)	86
Atropine Sulfate	3
Calcium Chloride	2
Dextrose 10% (D10)	14
Dextrose 50% (D50)	8
Diazepam (Valium)	4
Diltiazem (Cardizem)	3
Diphenhydramine (Benadryl)	1
Epi-Pen Adult	6
Epinephrine 1:10,000	96
Fentanyl	114
Glucagon	2
Glucose (Oral)	22
Ipratropium 0.5/Albuterol 2.5 (DuoNeb)	40
Ipratropium Bromide	9
Ketamine	6
Metoprolol (Lopressor)	1
Midazolam (Versed)	11
Morphine Sulfate	3
<b>Naloxone (Narcan)</b>	<b>40</b>
Nitroglycerin	48
Normal Saline	331
Ondansetron	61
Oxygen (non-rebreather mask)	112
Oxygen by Blow By	2
Oxygen by Mask	22
Oxygen by Nasal Cannula	243
Oxygen by Nebulizer	3
Oxygen by other means	4
Oxygen by Positive Pressure Device	22
<b>Total</b>	<b>1352</b>

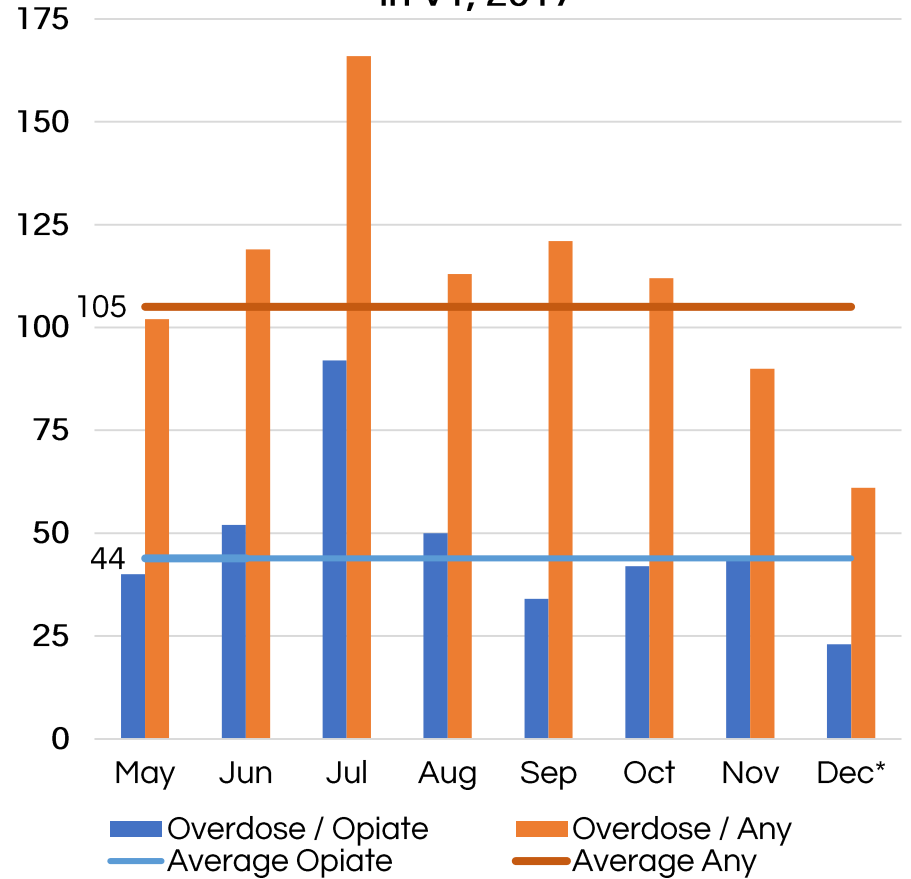


# VT EMS Responses to Overdose Incidents

Monthly EMS Incidents with Primary Provider Impression of "Overdose / ..." in District 03 (Chittenden Cty), 2017



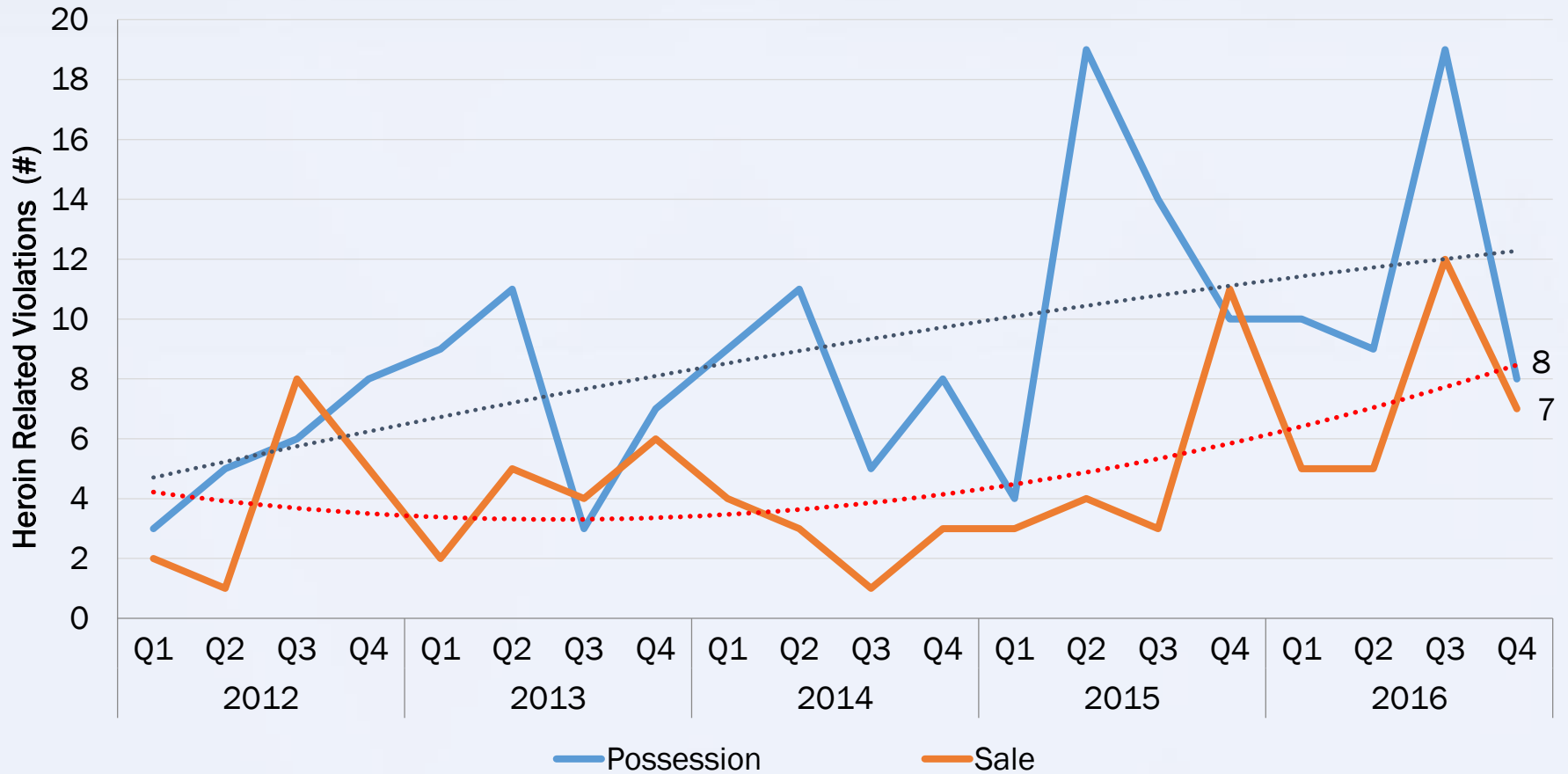
Monthly EMS Incidents with Primary Provider Impression of "Overdose / ..." in VT, 2017



Data Source: SIREN EMS Incident Reports, \*Preliminary Data

# Burlington Police Department Heroin Violations 2012 - 2016

## Number of Burlington PD Heroin Sales & Possession Violations

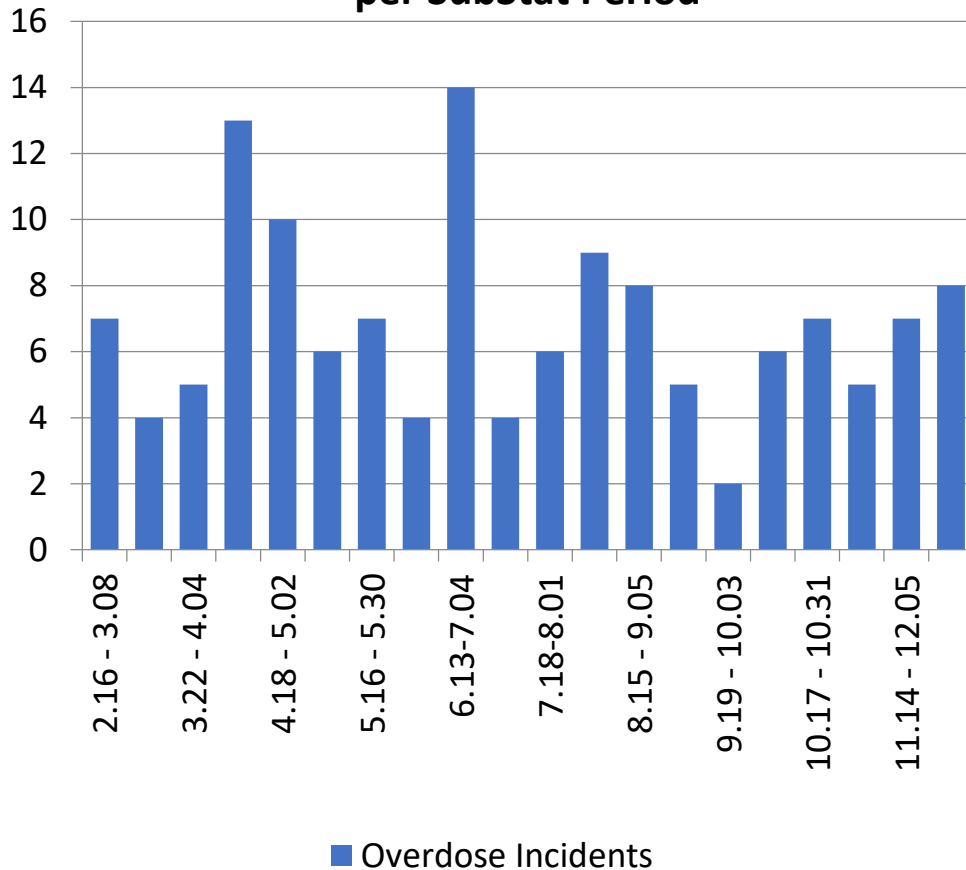


Data Source: Burlington Police Department



# SubStat Opioid-Related Overdose Incidents

Opioid-Related Overdose Calls Responded to  
by BPD, CPD, SBPD, MPD, EPD & WPD  
per SubStat Period



**11**  
Non-Fatal Opioid-Related  
Overdose Incidents Among  
SubStat Partners Since Nov. 14<sup>th</sup>

**3**  
Fatal Opioid-Related Overdose  
Incidents Among SubStat Partners  
Since November 14<sup>th</sup>

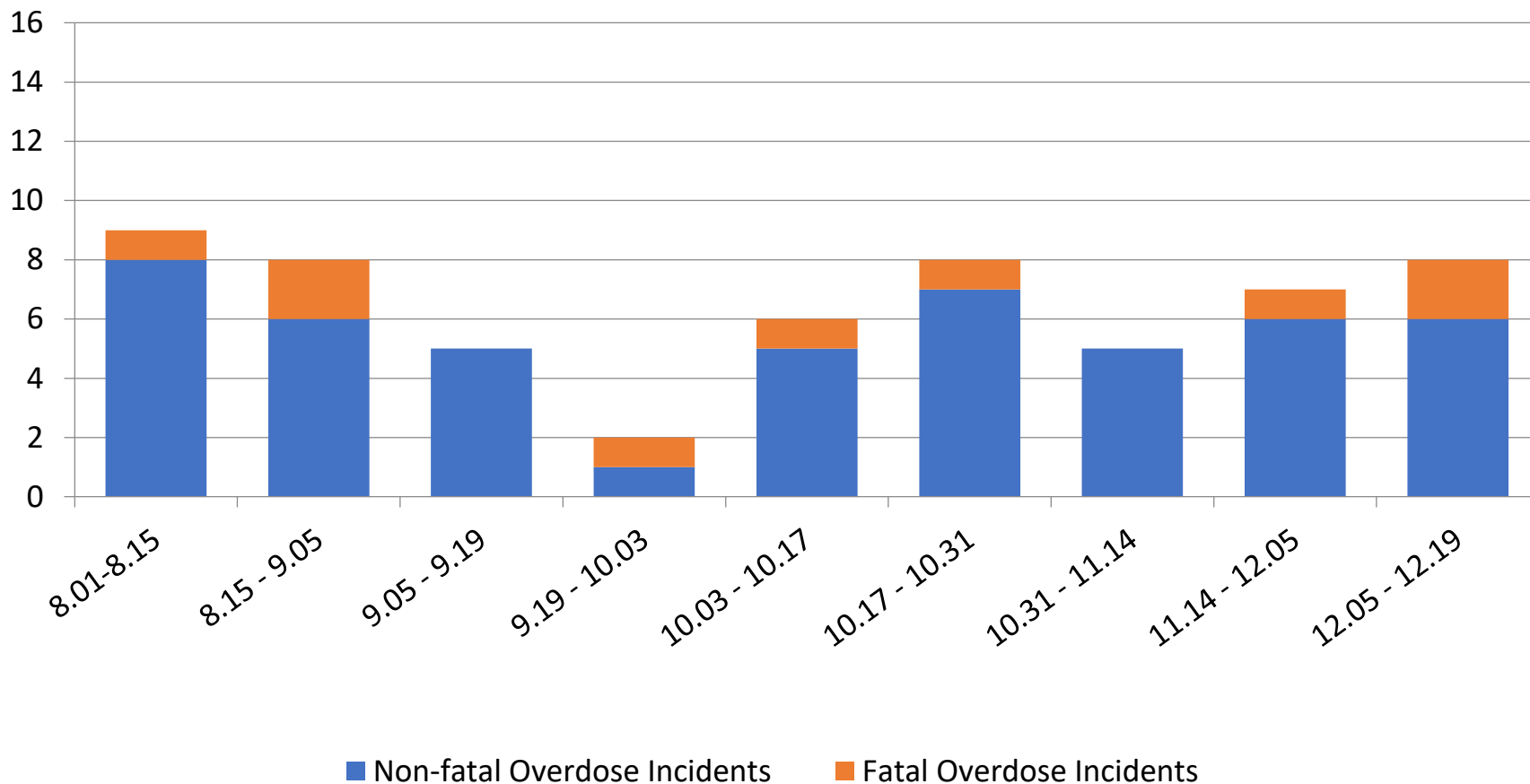
Data Source: Valcour Incident Report



# SubStat Opioid-Related Overdose Incidents



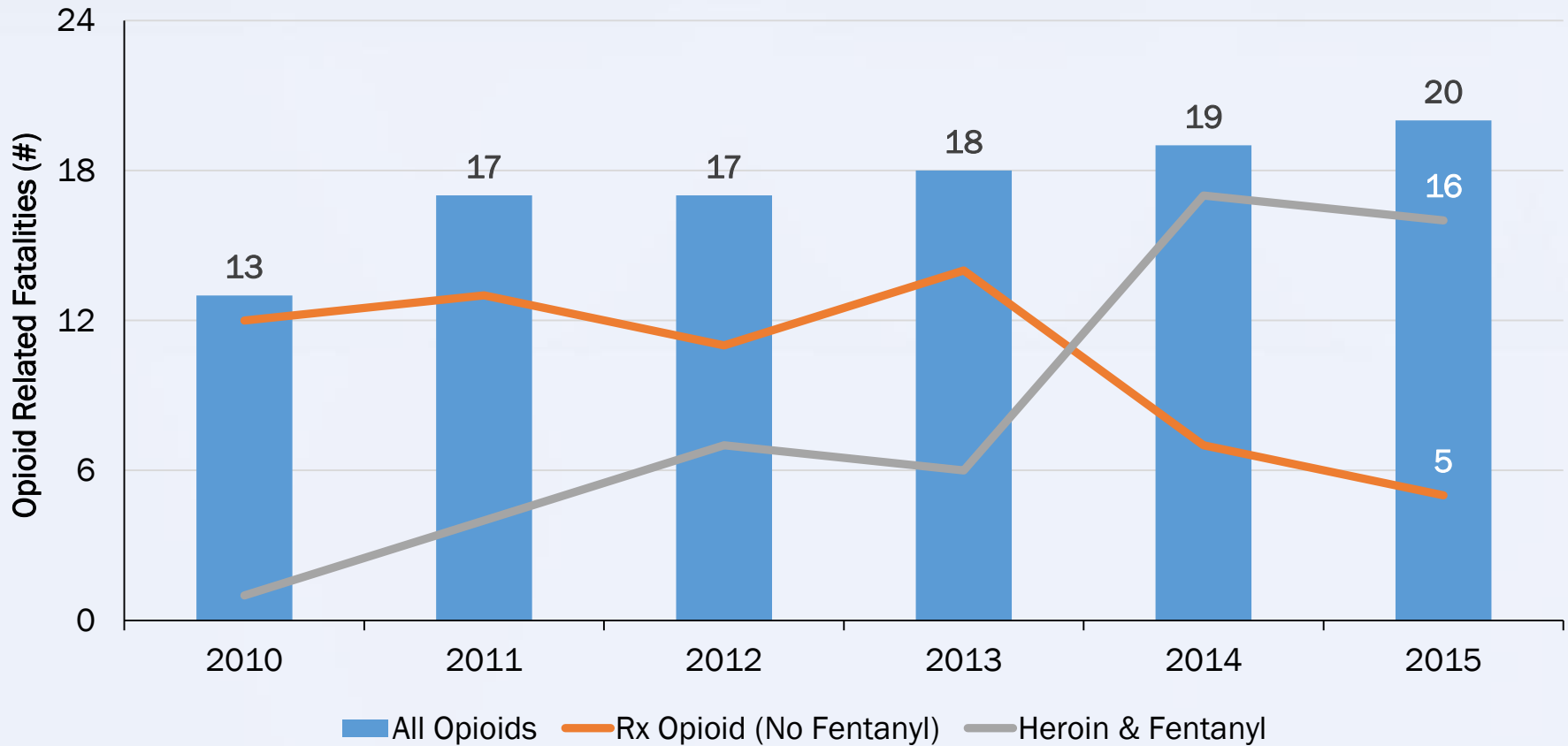
Opioid-Related Overdose Calls Responded to  
by BPD, CPD, SBPD, MPD, EPD & WPD per SubStat Period



Data Source: Valcour Incident Report

# Chittenden County Opioid-Related Accidental Fatal Overdoses, '10 - '15

## Accidental Fatal Overdoses Involving Opioids in Chittenden County by Opioid Type

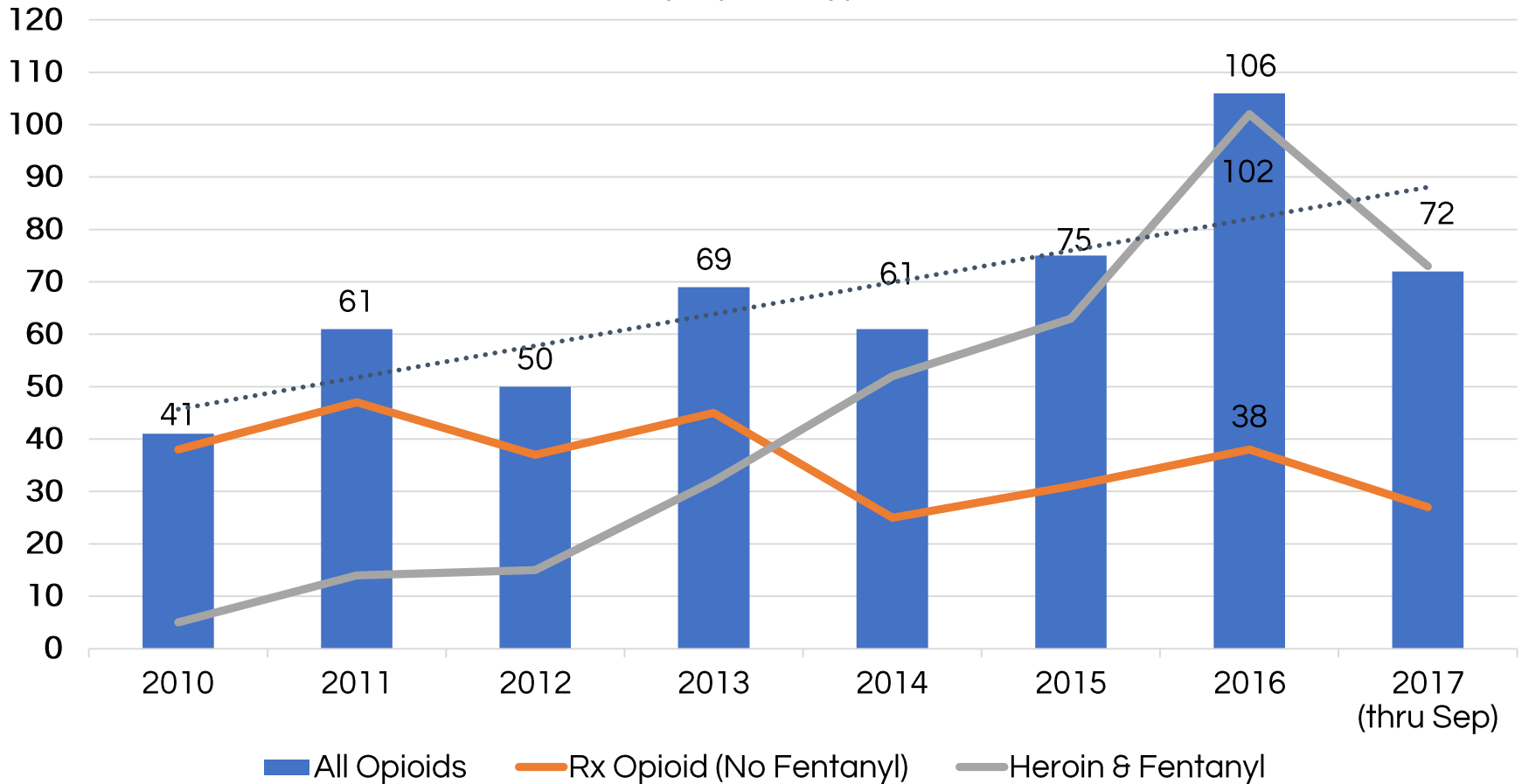


Data Source: [http://healthvermont.gov/research/documents/databrief\\_drug\\_related\\_fatalities.pdf](http://healthvermont.gov/research/documents/databrief_drug_related_fatalities.pdf)



# VT Opioid-Related Accidental Fatal OD

Number of Opioid-Related Accidental Fatal Overdoses in Vermont, by Opioid Type

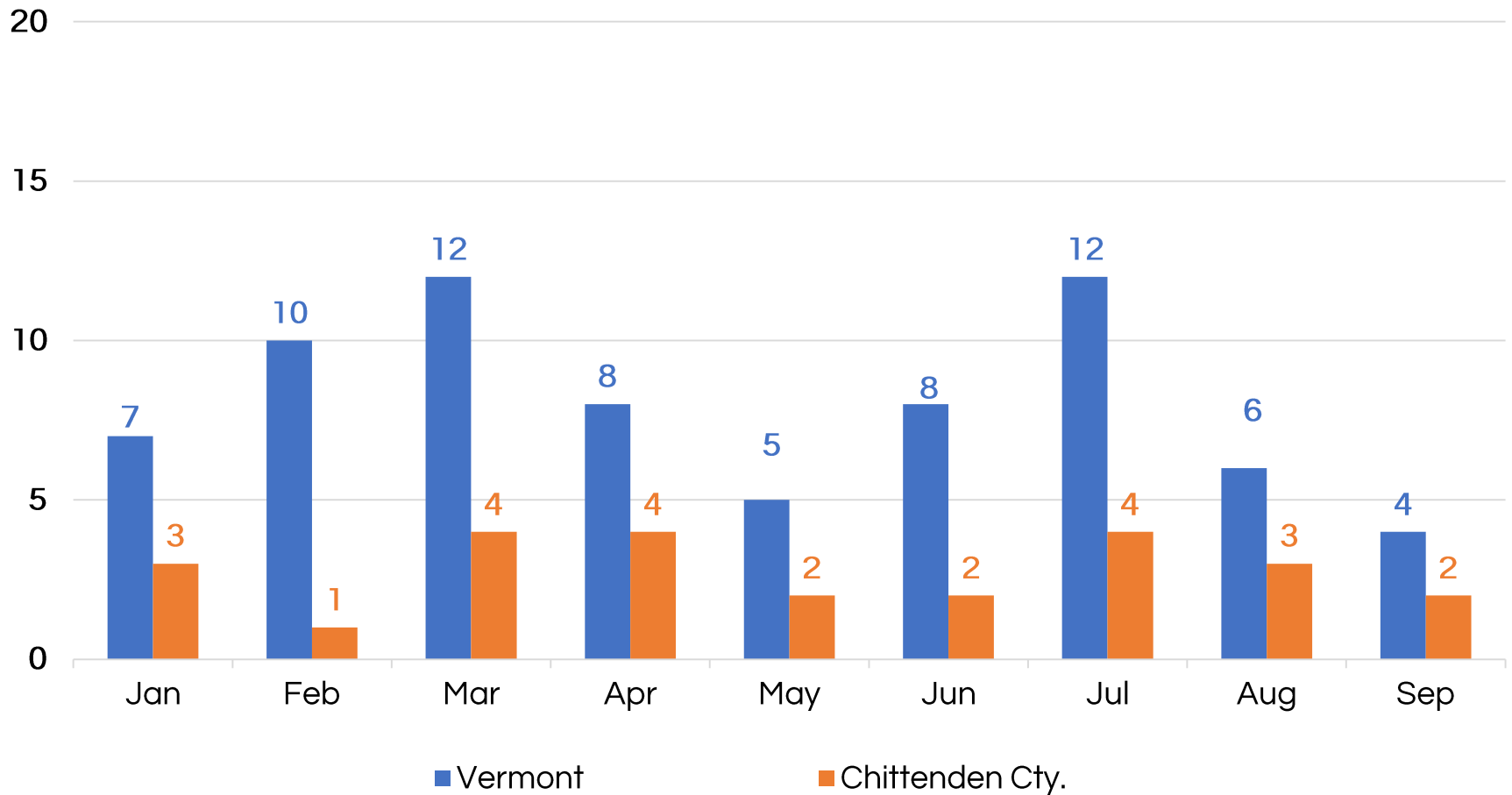


Data Source: [Vermont Department of Health](http://Vermont Department of Health)



# Monthly Opioid-Related Accidental Fatal OD, 2017

Monthly Opioid-Related Accidental Fatal Overdoses by Region, 2017

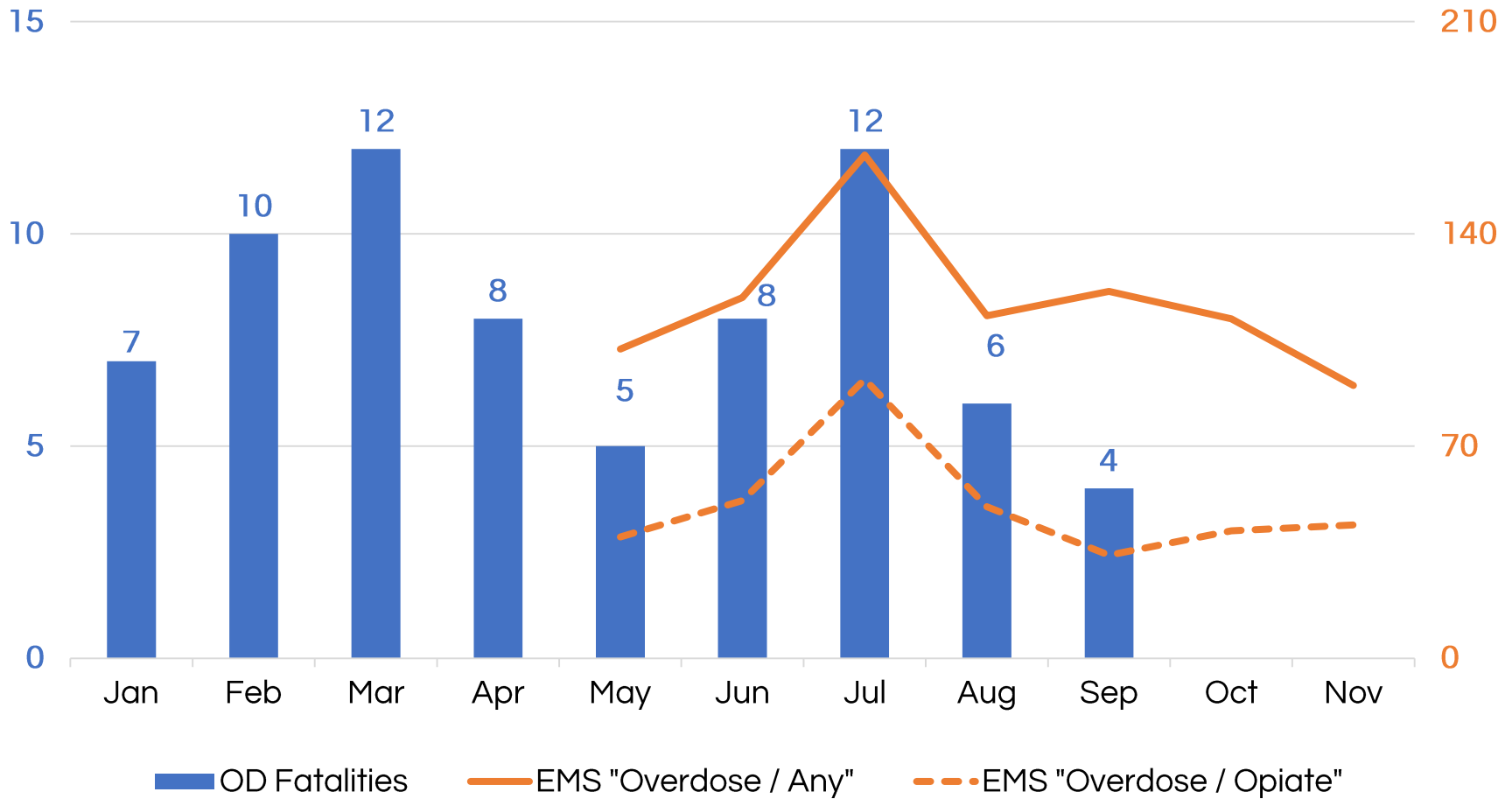


Data Source: [Vermont Department of Health](#)



# Monthly Opioid-Related Fatal/Non-Fatal ODs, '17

VT Opioid-Related Overdose Fatalities VS VT EMS Overdose Incidents,  
January – November 2017



Data Source: [Vermont Department of Health](http://Vermont Department of Health)

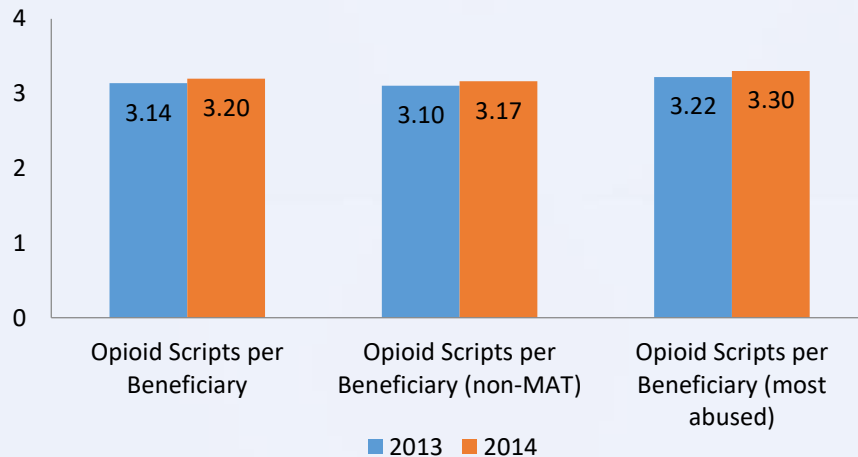


# Medicare Data Analysis Findings: '13 to '14

From 2013 to 2014:

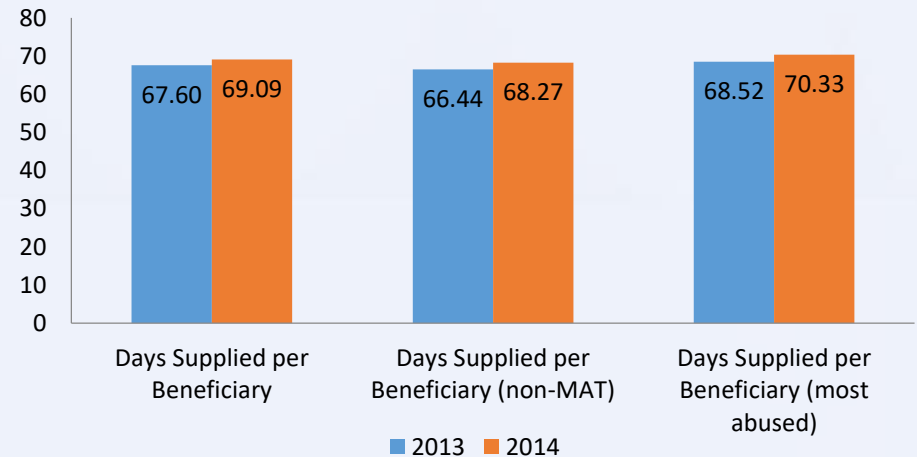
Doctors increase rate of opioids prescribed and number of days supplied

### Scripts Per Beneficiary 2013 to 2014



11,000 (9%) more opioid scripts in 2014

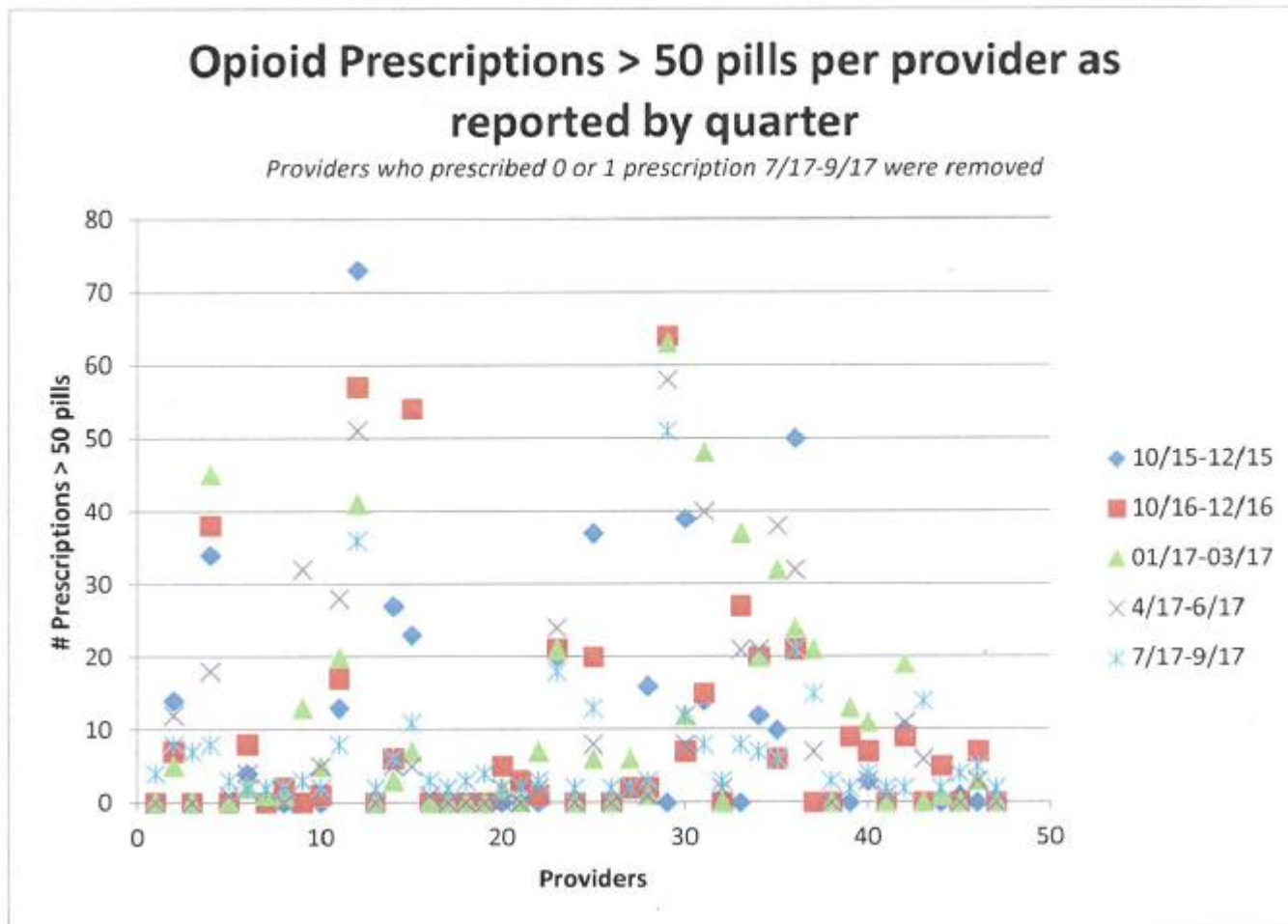
### Opioid Days Supplied Per Beneficiary 2013-2014



1.5 days longer supply periods in 2014

If we remove providers who prescribed 0 or 1 prescription in the most recent quarter (7/17-9/17) the graph demonstrates a reduction of the number of prescriptions over 50 pills per prescription per provider. For the purposes of graphically reporting the data, they have been omitted from the scatter chart below.

**b. Opioid Prescriptions > 50 pills per provider**

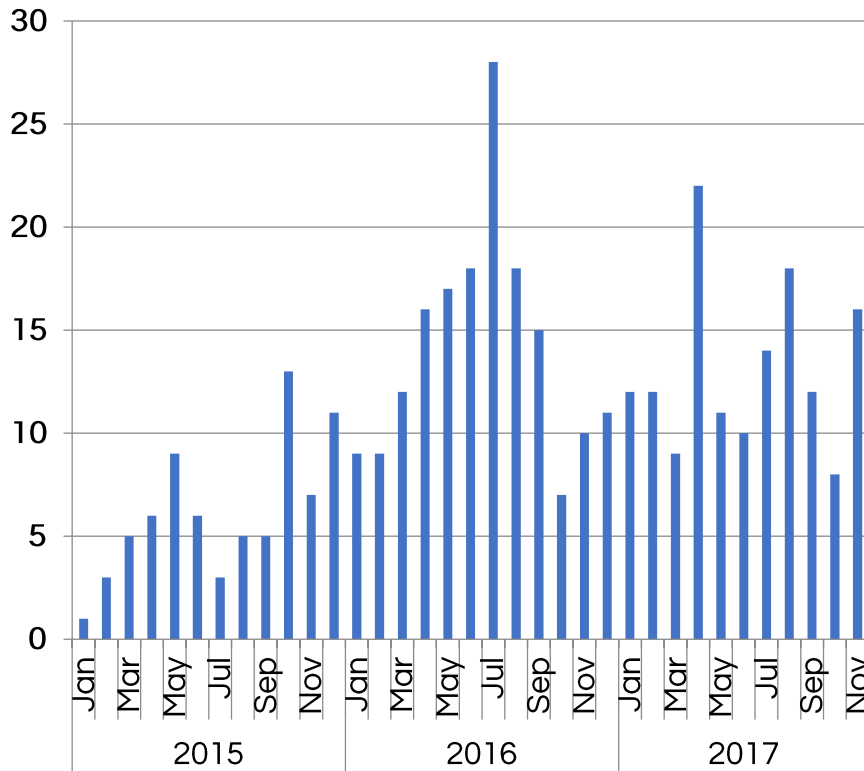




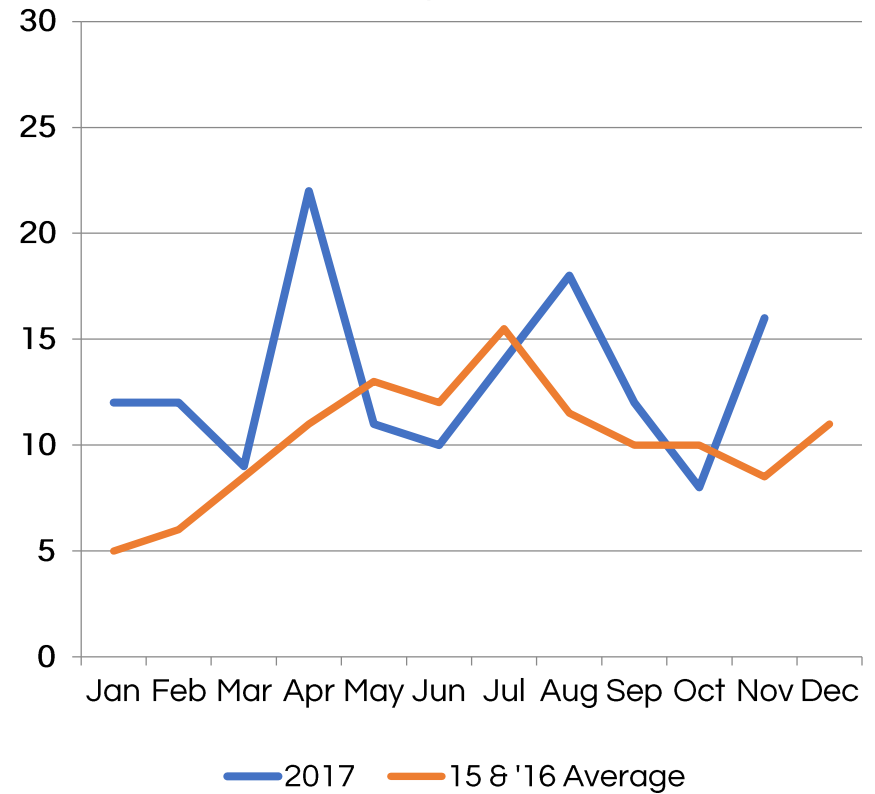
# UVM Medical Center Opioid-Related ED Visits



Monthly UVM Medical Center ED Encounters Coded as "Opioid OD" & "Opioid Poisoning"



Average Monthly UVM Medical Center Opioid-Coded ED Encounters, by Year

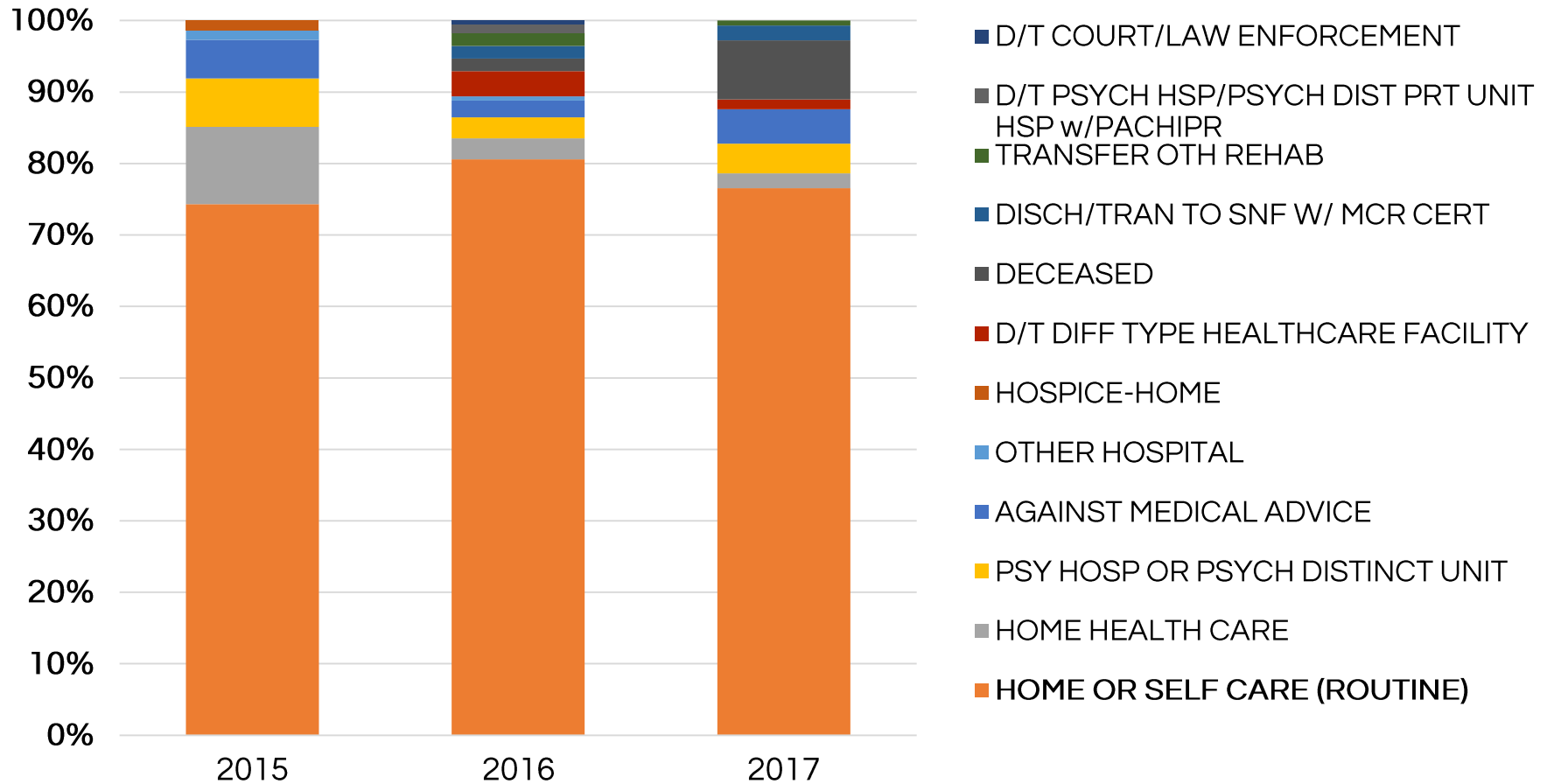


Data Source: UVM MC ED



# UVM Medical Center Opioid-Related ED Visits

Discharge Disposition of UVM MC ED Encounters  
With Dx Code "Opioid OD/ Poisoning", by Year

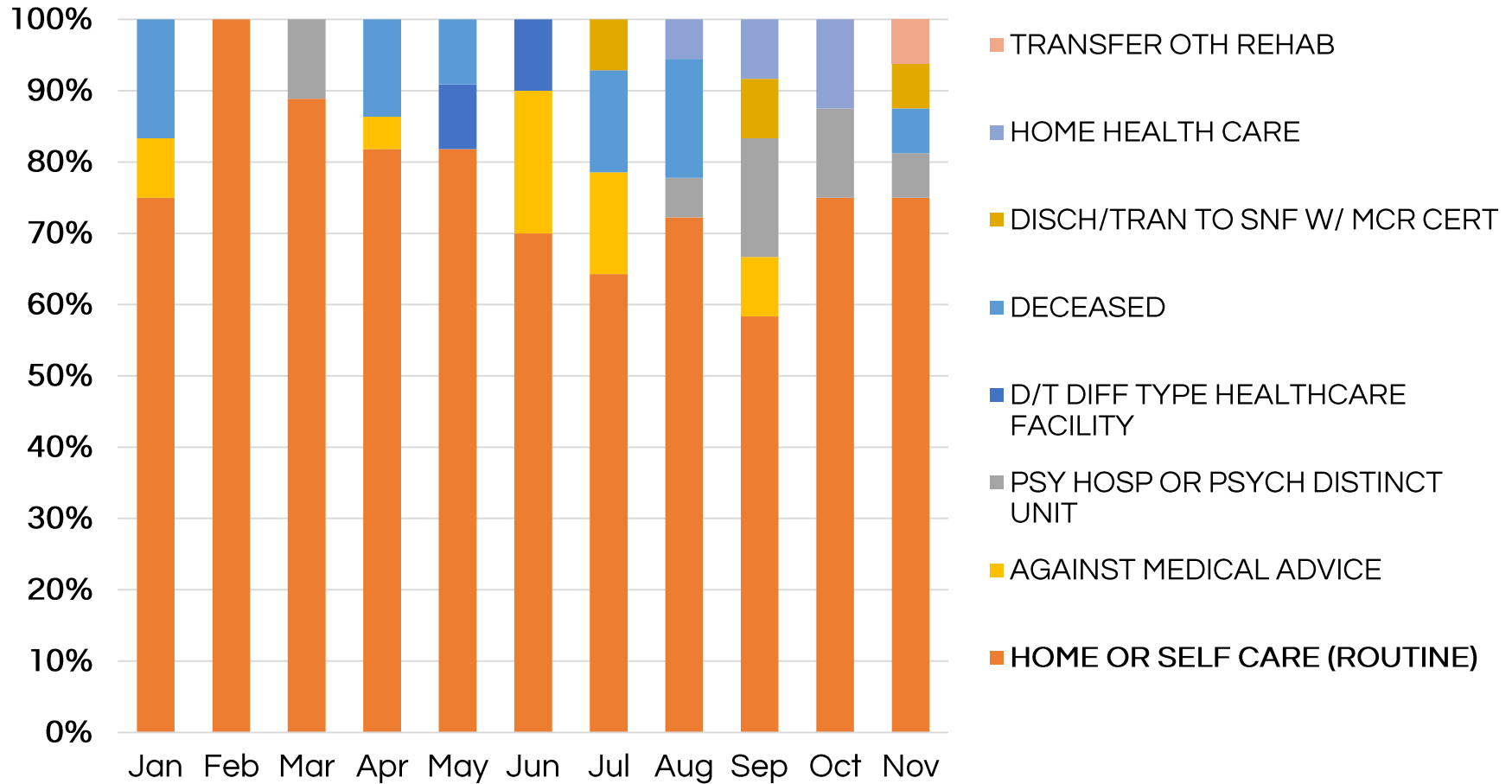


Data Source: UVM MC ED



# UVM Medical Center Opioid-Related ED Visits

2017 Discharge Disposition of UVM MC ED Encounters  
With DX Code "Opioid OD/ Poisoning", by Month

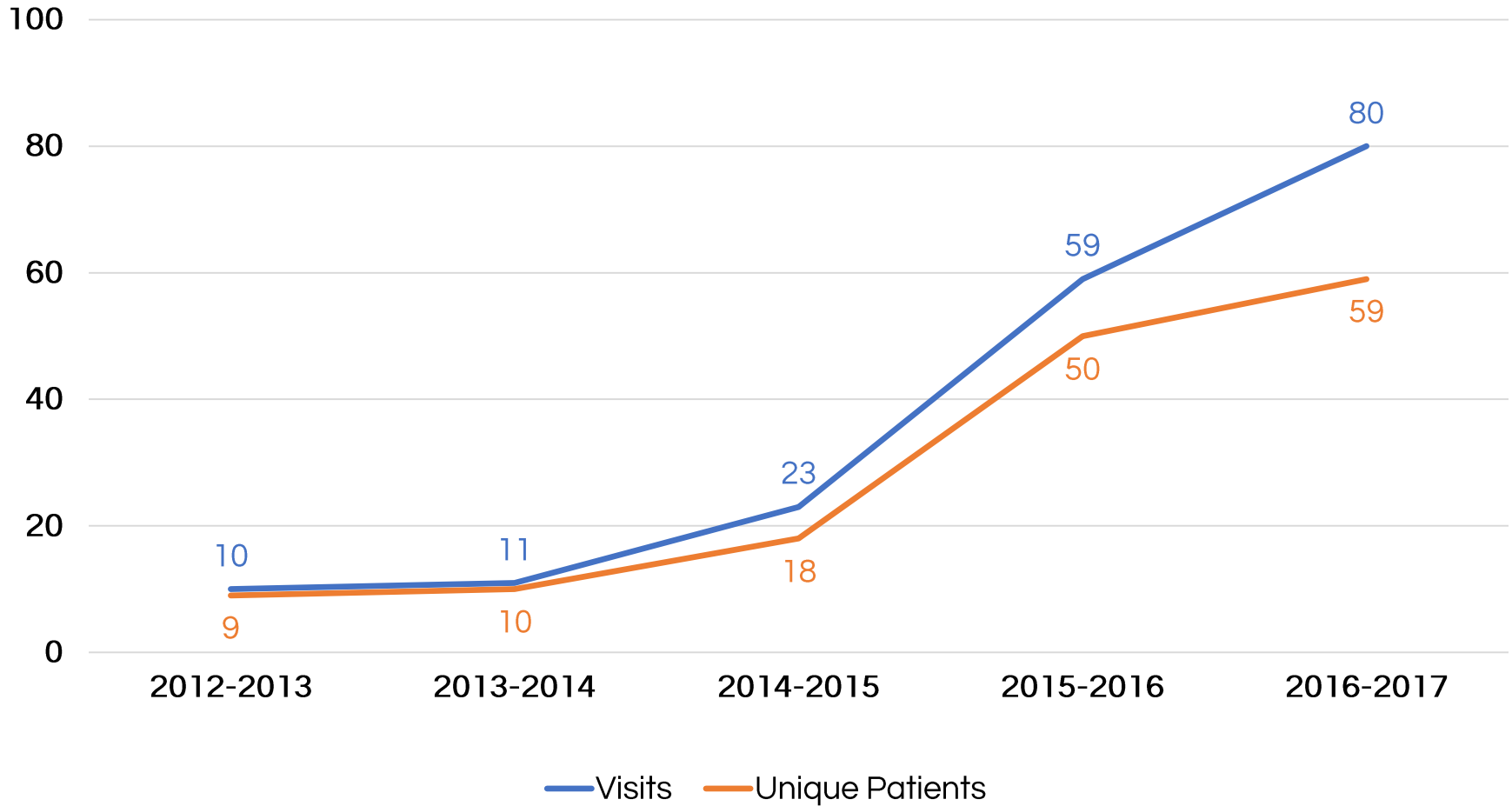


Data Source: UVM MC ED



# UVM Cooccurring Endocarditis & Drug Abuse Diagnoses

Incidents of Endocarditis & Drug Abuse Diagnosis Code in Same Visit,  
by Fiscal Year (Oct-Sep)



Data Source: University of Vermont Medical Center

# Spoke Provider Treatment Rates

## Spoke Patients, Providers & Staffing: December 2016

Region	Total # MD prescribing to patients	# MD prescribing to $\geq$ 10 patients	Staff FTE Hired	Medicaid Beneficiaries	Beneficiaries / Prescribing MD	Rate of MDs w/ 10+ Patient
Bennington	9	4	5.6	229	25.4	44%
St. Albans	15	10	5.6	382	25.5	67%
Rutland	12	7	4.9	253	21.1	58%
Chittenden	70	16	13.9	596	8.5	23%
Brattleboro	10	5	2.57	145	14.5	50%
Springfield	4	1	1.5	53	13.3	25%
Windsor	6	3	4	161	26.8	50%
Randolph	7	5	2.1	145	20.7	71%
Barre	19	8	5.5	273	14.4	42%
Lamoille	9	3	3.2	151	16.8	33%
Newport & St Johnsbury	14	2	2	95	6.8	14%
Addison	5	2	2	74	14.8	40%
Upper Valley	4	0	1.5	13	3.3	0%
<b>Total</b>	<b>180</b>	<b>63</b>	<b>54.37</b>	<b>2572</b>	<b>14.3</b>	<b>35%</b>

**Table Notes:** Beneficiary count based on pharmacy claims October – December, 2016; an additional **167** Medicaid beneficiaries are served by **32** out-of- state providers. Staff hired based on Blueprint portal report 1/17/17. \*4 providers prescribe in more than one region.



# Spoke Provider Treatment Rates

## Spoke Patients, Providers & Staffing: October 2017

Region	Total # MD prescribing to patients	# MD prescribing to ≥ 10 patients	Staff FTE Hired	Medicaid Beneficiaries	Beneficiaries / Prescribing MD	Rate of MDs w/ 10+ Patient
Bennington	11	4	5.2	230	20.9	36%
St. Albans	17	9	9.1	396	23.3	53%
Rutland	19	7	5.2	316	16.6	37%
Chittenden	82	12	14.8	508	6.2	15%
Brattleboro	10	6	3.7	133	13.3	60%
Springfield	5	2	1.55	53	10.6	40%
Windsor	10	4	4	198	19.8	40%
Randolph	7	4	3.1	100	14.3	57%
Barre	19	6	6.2	250	13.2	32%
Lamoille	15	5	4.8	242	16.1	33%
Newport & St Johnsbury	13	2	2	91	7.0	15%
Addison	7	2	2	84	12.0	29%
Upper Valley	4	0	1.5	17	4.3	0%
<b>Total</b>	<b>212</b>	<b>59</b>	<b>63.15</b>	<b>2617</b>	<b>12.1</b>	<b>28%</b>

**Table Notes:** Beneficiary count based on pharmacy claims August – October, 2017; an additional **287** Medicaid beneficiaries are served by **35** out-of-state providers. Staff hired based on Blueprint portal report 11/22/17. \*6 providers prescribe in more than one region.

Data Source: [Opioid Use Disorder Treatment Census and Wait List, Oct. '17](#)



# Next CommStat Meeting

- 1/25 (Thursday) 8:30-11:00 AM
- Contois Auditorium