

# Asthma Action Plans

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## HIMSS Davies Presentation

LINDSAY NEPTUNE, PNP



OPEN DOOR

FAMILY MEDICAL CENTERS

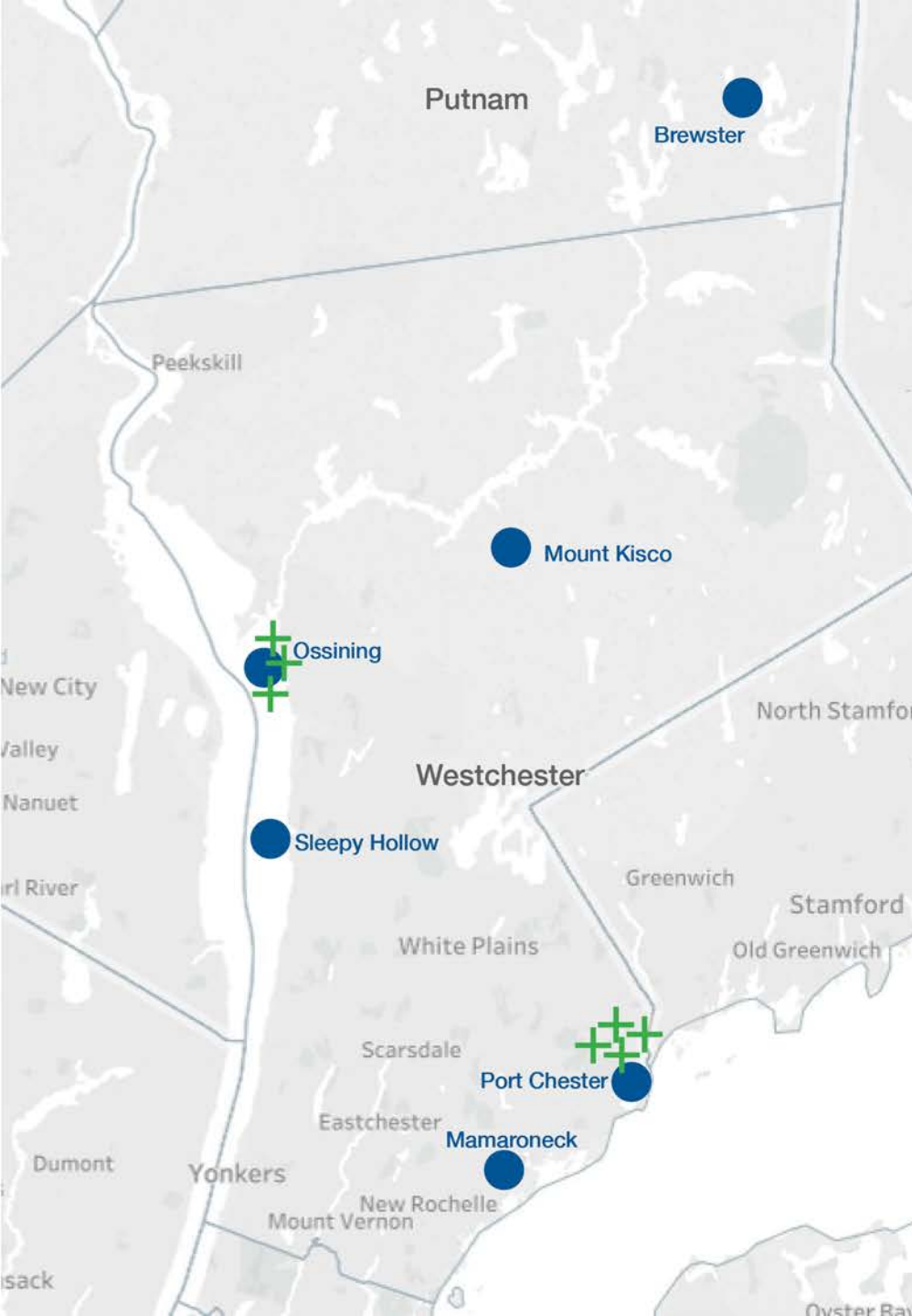
Open Door was founded as a free clinic in 1972 to address health inequities in Ossining.



Sing Sing Correctional Facility, Ossining, NY  
Second oldest prison in New York State.

- 1985 – Open Door Sleepy Hollow
- 1994 – Open Door Foundation
- 1995 – Open Door Port Chester
- 2003 – School-Based Health Centers**
- 2006 – Open Door Mt. Kisco
- 2007 – eClinicalWorks Implementation**
- 2013 – Open Door Brewster
- 2015 – Mobile Dental Unit (K–12)  
Family Medicine Residency Program
- 2016 – Relevant adoption**
- 2017 – Open Door Mamaroneck
- 2018 – *Brand new* Open Door Sleepy Hollow  
Dental Residency Program

# History of Open Door



**● Open Door Locations**

**Ossining**

165 Main Street  
Ossining, NY 10562

**Mount Kisco**

30 West Main Street  
Mount Kisco, NY 10549

**Port Chester**

5 Grace Church Street  
Port Chester, NY 10573

**Brewster**

155 Main Street  
Brewster, NY 10509

**Sleepy Hollow**

300 N. Broadway  
Sleepy Hollow, NY 10591

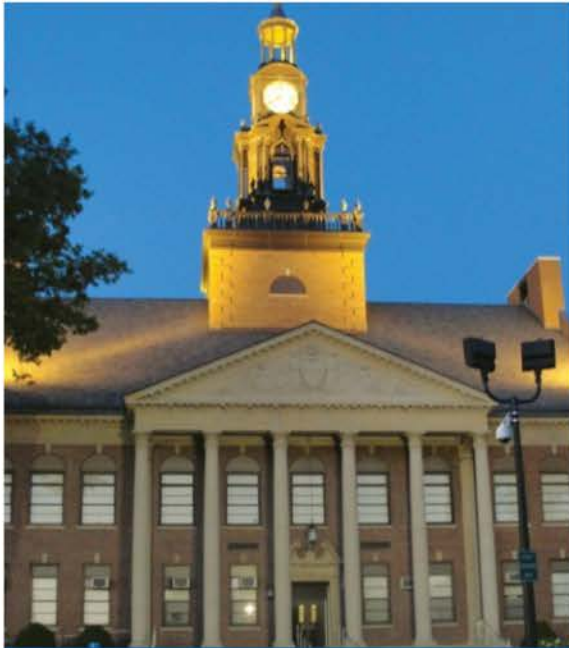
**Mamaroneck**

689 Mamaroneck Avenue  
Mamaroneck, NY 10543

**+ School-Based Health Centers**

- Anne M. Dörner Middle School, Ossining
- John F. Kennedy Magnet School, Port Chester
- Ossining High School, Ossining
- Park Avenue School, Port Chester
- Port Chester Middle, Port Chester
- Port Chester High School, Port Chester
- Thomas A. Edison Elementary School, Port Chester





Port Chester High School, Port Chester



Ossining High School, Ossining



Port Chester Middle, Port Chester



Thomas A. Edison Elementary School, Port Chester



Park Avenue School, Port Chester



John F. Kennedy Magnet School, Port Chester



Anne M. Dörner Middle School, Ossining

# Care Delivery Sites



## Medical Services

Family Medicine, Pediatrics,  
Internal Medicine, OB/Gyn



## Dental Services

General Dentistry,  
Pediatric Dentistry



## Behavioral Health

Psychiatry,  
Clinical Social Work,  
Mental Health Counseling



## Enabling Services

Translation/Interpretation,  
Health Education/Wellness,  
Case management, Outreach,  
Eligibility Assistance, Transportation  
(also WIC program)

# SBHC Services

In 2017

# Open Door treated 54,000 patients

That's the equivalent to filling every seat in Yankee Stadium!



**73%** of patients diagnosed with Diabetes have the disease **under control**



**61%** of patients attending our **Diabetes Prevention Program** lowered their blood sugar levels within the first six months



**69%** of patients with hypertension (high blood pressure) have it under control



**80%** of School-Based Health Center 13-year-olds are up to date with their immunizations



**9 out of 10** adolescents at our School-Based Health Centers **screened for depression** received follow-up care as needed



**67%** of children with abnormal BMI received **follow-up nutrition or physical activity counseling**



**9,304** total patient visits to Open Door **Wellness-related Programs**



**72%** of students with access to Open Door School-Based Health Centers had an adolescent well visit

# 2017 Highlights



OPEN DOOR  
FAMILY MEDICAL CENTERS

# School-Based Health Center Highlights



Over **23,000 VISITS** in 2017 by **5,400 UNIQUE PATIENTS**.



**NO OUT OF POCKET COSTS** to children or their parents, no co-pays, and all insurances accepted (uninsured are welcomed).



The **TIME SAVED** waiting at a doctor's office plus the transportation time to and from the appointment eliminates lost time for hourly workers.




National studies indicate that students NOT enrolled in a SBHC lost 3x as much **CLASS TIME** as those enrolled in a SBHC.



SBHC staff know the students and the culture of the school community and can **ADDRESS HEALTH AND WELLNESS ISSUES PREEMPTIVELY** and from an inside perspective.


## Open Door SBHCs





One of the most chronic  
childhood diseases

# Asthma

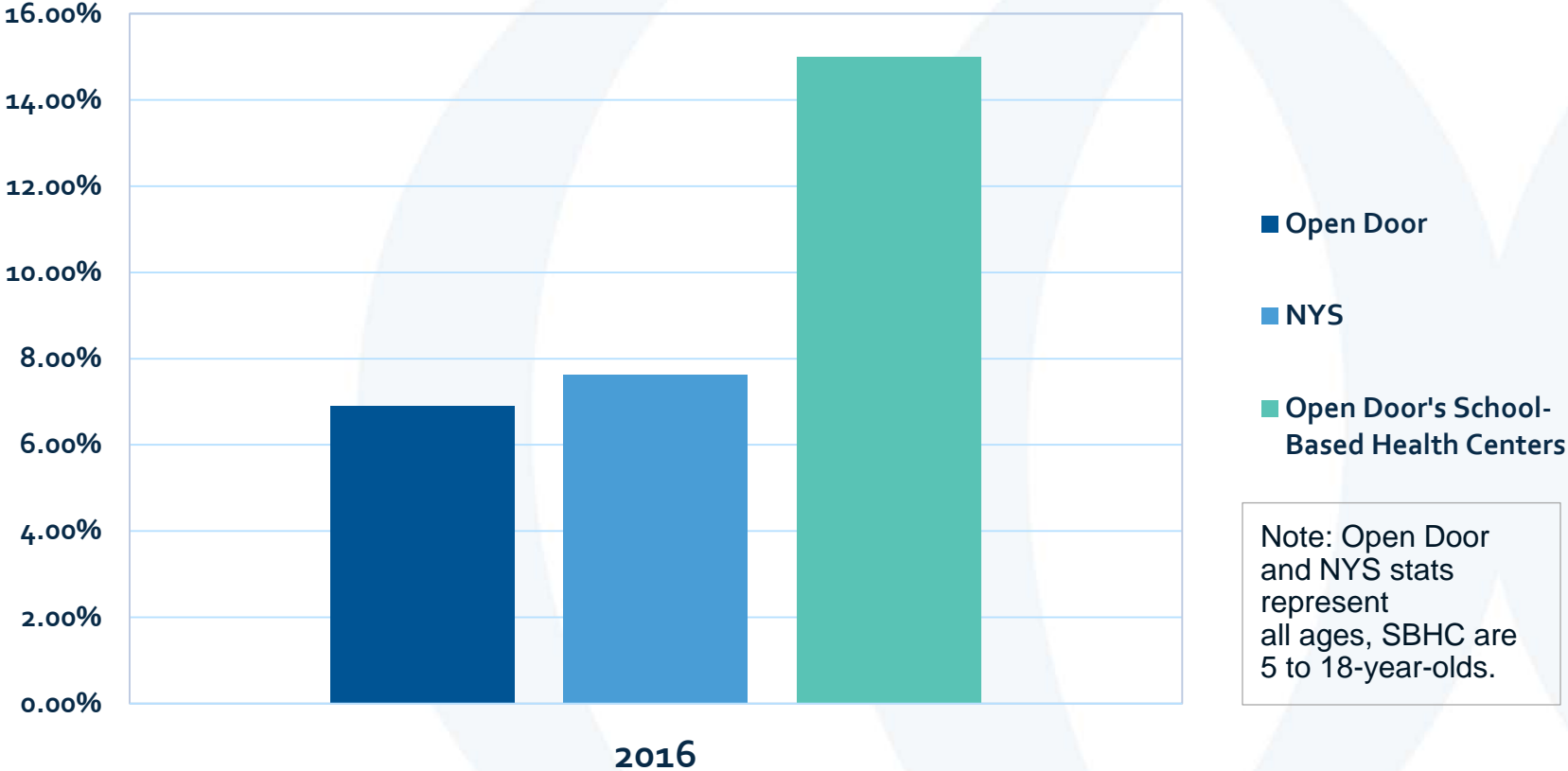


Leading cause of  
missed school days

Third leading cause of  
hospitalizations of children  
under age 15.



# Asthma Prevalence



Data Source: HRSA UDS National Health Center Data, 2016

# Asthma Prevalence



# School-Based Health Center Asthma Metrics

<b>Time Frame</b>	<b>2007/2008</b>
Missed School Days	376
Asthma Severity Classification	15%
Persistent Asthmatics on an ICS	23%
Asthma Action Plan	15%
Asthma Well Controlled	50%
Acute Care Visits to SBHC	20
ED Visit Rate	24.7 per 10,000

Data Sources: Open Door Family Medical Centers; Port Chester School District, Westchester County Sparks Data 2006-20

## SBHC Asthma Report Card





Reduce missed school days by 50%.



Increase the documented levels of asthma severity to 80%.



Increase the percentage of persistent asthmatics prescribed inhaled corticosteroids to 90%.



Increase updated Asthma Action Plans to 100%.

# Plan and Measurement Metrics



# Tools to Improve Care

# Four Components of Care



**Assessment and  
Monitoring of Asthma  
Severity and Control**



**Education for a  
Partnership in Care**



**Control of Environmental  
Factors and Co-Morbid  
Conditions that  
Affect Asthma**



**Medication**



# Six Priority Messages

## Clinical Information Systems

- eClinical Works
- Relevant Data Warehouse, Dashboards and Asthma Registry

## Decision Support

- Reminder Calls
- Visit Planning Reports

## Delivery System Design

- Templates
- Order Set

# Our Care Model

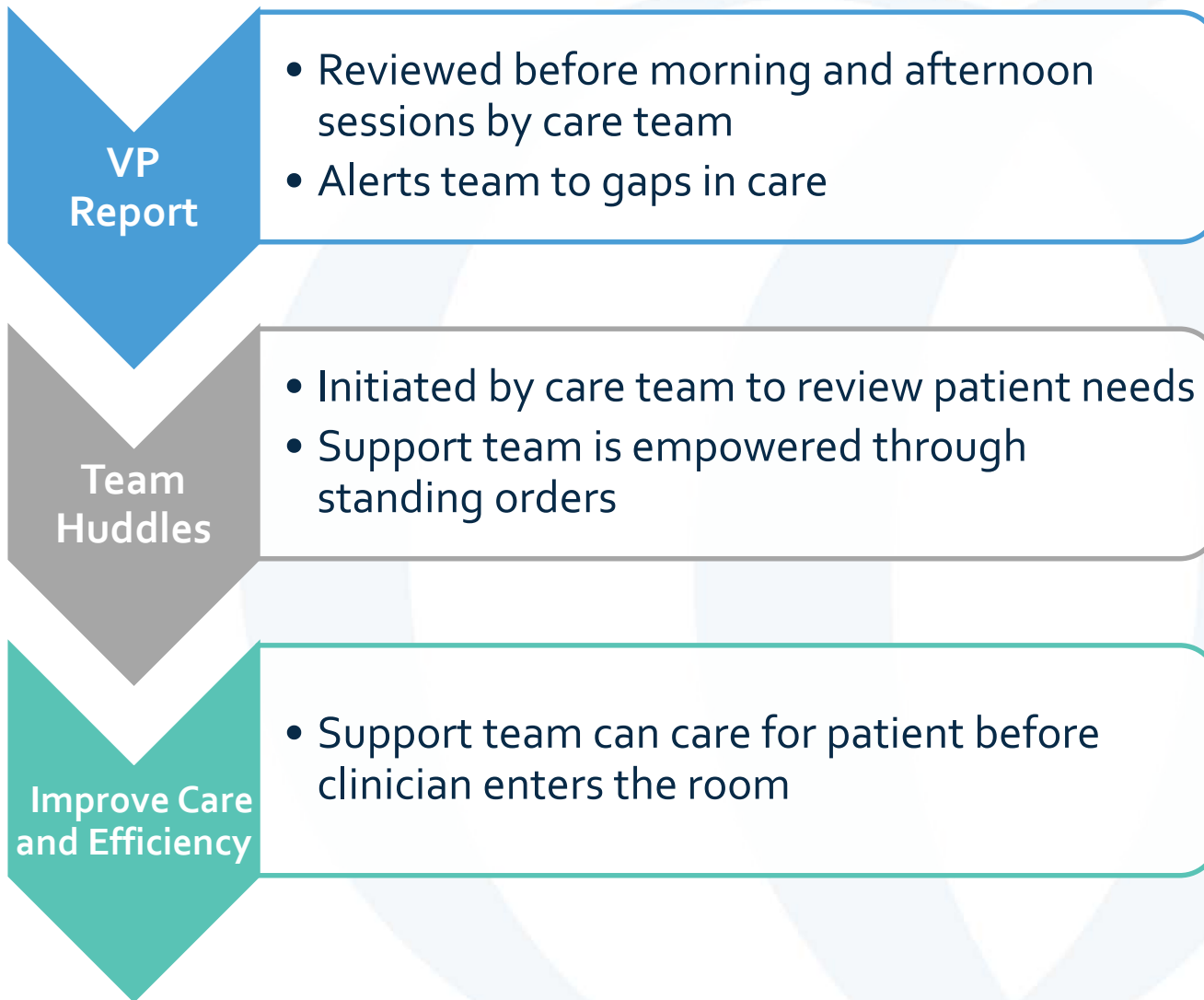
# Visit Planning



OPEN DOOR

FAMILY MEDICAL CENTERS





# Relevant Visit Planning

Lindsay Neptune has 15 appointments on 07/09/2018

10:15 AM

Brief N

Risk Score: 0.0

**Care Gaps**

Asthma Action Plan

*Recommended Intervention:* Complete AAP

Persistent Asthma Therapy

*Recommended Intervention:* Reclassify or prescribe controller medication

Dental

*Recommended Intervention:* Schedule Dental Appointment

# Relevant Visit Planning

**Copy And Merge Templates**

Template For  
 Patient  Encounter Date

Choose Template

Generic Category

Patient Specific

Find  Contains

Facility

Pr	Template	Access
<input type="checkbox"/>	-Blank (erases your note if chosen as Copy)	
<input type="checkbox"/>	-Eating/Exercise recommendation	
<input type="checkbox"/>	-ED Follow-up	
<input type="checkbox"/>	-Flu vac, peds 6 months-18 years	
<input type="checkbox"/>	-Hospitalization Follow-up	
<input type="checkbox"/>	-Pediatric BMI > 95%	
<input type="checkbox"/>	-Preoperative exam and clearance	
<input type="checkbox"/>	-SBHC asthma 4-11	
<input type="checkbox"/>	-SBHC asthma 5th grade 4th quarter	
<input type="checkbox"/>	-SBHC asthma 6th grade 1st quarter	
<input type="checkbox"/>	-SBHC exposure to second hand smoke	

**Copy And Merge Templates**

Template For  
 Patient  Encounter Date

Choose Template

Generic Category

Patient Specific

Find  Contains

Facility

Pr	Template	Access
<input type="checkbox"/>	-SBHC HIV CT short: Oral 15M	
<input type="checkbox"/>	-SBHC HIV Declining test	
<input type="checkbox"/>	-sbhc nutrition visit	
<input type="checkbox"/>	-sbhc nutrition visit-updated	
<input type="checkbox"/>	-SBHC: Well Child Elementary	
<input type="checkbox"/>	-SBHC: Annual Visit Elementary School	
<input type="checkbox"/>	-SBHC: Annual Visit High School	
<input type="checkbox"/>	-SBHC: Annual Visit Middle School	
<input type="checkbox"/>	-SBHC: Asthma 12 and up	
<input type="checkbox"/>	-SBHC: Well teen - Middle School	
<input type="checkbox"/>	-SBHC: Well Teen HS	

# Asthma Visit Templates

**HPI:** ▾

Self-Management/CarePlan

Goal -Patients Health Care Goal: SM Goal: \*.

**Asthma**

Current Asthma Control

: \_

Underlying Asthma Severity assessed:.

Asthma Action Plan

: \_

Is a Controller Medication used?

: \_

Grade

: \_

Do you carry your self administered medication at school?

rescue inhaler:\* \_

pre-exercise medication:\* \_

ACT \_.

**Current Medication:**

Taking

- clindamycin topical 1% gel 1 app applied topically 2 times a day, stop date 07/17/2018
- metformin 500 mg tablet 1 tab(s) orally 2 times a day
- ibuprofen 200 mg tablet 1 tab(s) orally every 6 hours

Not-Taking/PRN

- Adderall XR 10 mg capsule, extended release 1 cap(s) orally once a day (in the morning)
- Acetaminophen

**Medical History:**

**Allergies/Intolerance:**

**Surgical History:**

**Hospitalization:**

**Family History:**

**Social History:**

**ROS:** ▾

ACT Asthma 4-11

Spirometry \*. How is your asthma today? \*. How much of a problem is your asthma when you run, exercise or play sports? \*. Do you cough because of your asthma? \*. Do you wake up during the night because of your asthma? \*. During the last 4 weeks, how many days did your child have any daytime asthma symptoms? \*. During the last 4 weeks, how many days did your child wheeze during the day because of asthma? \*. During the last 4 weeks, how many days did your child wake up during the night because of asthma? \*. Total score \*.

# Asthma Visit Templates



**ASTHMA ACTION PLAN**

After hours E

Patient's Name Abby Test DOB 12/08/1999 Date of this plan 08/15/2018

Treatment goal: To keep as free of asthma symptoms as possible Personal Best Peak Flow: \_\_\_\_\_

**Personal asthma triggers:**

- Cats  Dogs  Molds  Dust/Dust Mites  Fumes  Cold Air  
 Humidity  Respiratory Infection  Pollen  Smoke  Exercise  Other \_\_\_\_\_

Usual asthma symptoms: \_\_\_\_\_

Sintomas usuales de asma: \_\_\_\_\_

**ZONE**

**ZONA**

**GREEN** **Signs & Symptoms**

- 1) You feel good
- 2) You have no wheezing, no cough
- 3) You have no asthma symptoms
- 4) Your peak flow is > \_\_\_\_\_

**VERDE**

Usted se siente bien  
No tiene sibilancias  
No tiene tos  
No tiene sintomas de asma

Su flujo Maximo es superior a \_\_\_\_\_ (>80% del mejor)

Tome estos medicamentos diariamente para el control a largo plazo

Medicamento	Cantidad	Con que frecuencia
_____	_____	_____
_____	_____	_____
_____	_____	_____

**YELLOW** **Signs & Symptoms**

- 1) You have a cold.
- 2) Have mild wheeze, tightness or cough.
- 3) You have \_\_\_\_\_
- 4) Your peak flow is \_\_\_\_\_

**If symptoms are not improved in 3-4 days, contact our office**

**AMARILLO**

El asma esta empeorando  
Tiene cualquiera de los siguientes:  
Resfriado, tos, sibilancias  
Dificultad para respirar  
Se despierta por la noche debido al asma  
No puede realizar actividades habituales  
Su flujo maximo es \_\_\_\_\_ 50%-80% del mejor

Su flujo maximo es \_\_\_\_\_ 50%-80% del mejor

Si los sintomas no mejoran entre 3-4 días, contacte nuestra clinica

Siga tomando sus medicamentos de control cada dia y anada el medicamento de alivio rapido

Medicamento	Cantidad	Con que frecuencia
_____	_____	_____
_____	_____	_____
_____	_____	_____

**RED** **Signs & Symptoms**

- 1) You feel very tight\*
- 2) You have increased wheeze or cough\*  
\* **If severe call 911 or go to nearest ER**
- 3) You have \_\_\_\_\_
- 4) Your peak flow is \_\_\_\_\_ or less

**If symptoms not improved in 3-4 days, contact our office**

**ROJO**

Busque ayuda medica si tiene cualquiera de los siguientes:  
Dificultad para respirar, aumento de sibilancias o tos\*  
Los medicamentos no estan haciendo efecto  
No puede caminar ni hablar bien  
SU flujo maximo es inferior a \_\_\_\_\_ 50% del mayor

Tome estos medicamentos ahora mismo!

Medicamento	Cantidad	Con que Frecuencia
_____	_____	_____
_____	_____	_____
_____	_____	_____

\* Si empeora llame al 911 o dirijase a la sala de emergencias mas cercana. Si los sintomas no mejoran en 3-4 días, contacte nuestra clinica.

# Asthma Action Plan

Treatment (Test, Abby - 07/11/2018 07:45 AM, Same-Day)

Pt. Info Encounter Physical Hub

Rx Cur Rx Add Remove Education Summary Pop Up Generate Hx By Id Code Group

Mild persistent asth Others

Comme	Name	Strength	Formulatio	Take	Route	Frequenc	Duration	Dispi	Refill	Auth	Stop

Labs Browse ...

Notes Clinical Notes Browse ...

Preventive Med Print Orders

Address <http://10.240.16.143:8082/mobiledoc/jsp/catalog/xml/Healthwise.jsp?CDCode=J45.30.&CDName=500468,0&PID=260402&encid=6389938&md=0.939117&redirect=1> Go Add to Favorites

Suggestions New Search A - Z Categories Favorites

Results based on patient data

Age: 18 Gender: Female

Diagnosis

- J45.30 (Mild persistent asthma, unspecified whether complicated)
  - Asthma in Children: Care Instructions
  - Controlling Asthma in Children: Care Instructions
  - Asthma: Your Child's Action Plan
  - Using a Metered-Dose Inhaler: Care Instructions
  - Using a Dry Powder Inhaler: Care Instructions
  - Learning About Your Child's Asthma Triggers
  - Asthma Attack in Children: Care Instructions
  - Asthma in Teens: Care Instructions
  - Using a Metered-Dose Inhaler for Teens: Care Instructions
  - Learning About Peak Flow Meters for Teens
  - Asthma in Children 12 Years and Older: Care Instructions
  - Bronchodilator, Short-Acting, for Children: Care Instructions
  - Long-Acting Bronchodilator for Children: Care Instructions
  - Learning About Peak Flow Meters for Children
  - Learning About Metered-Dose Inhalers for Children

Preview and Print Send Print

Print Size: M L XL

No document selected

# Asthma Education Embedded in eCW

# Proactive Outreach



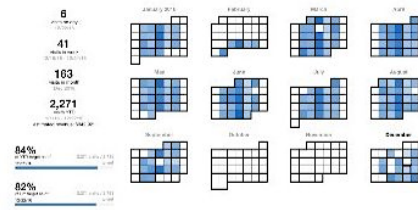
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### Quality Measures



### Productivity



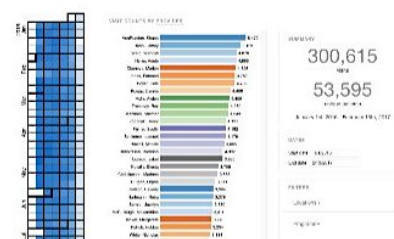
### Reports



### Visit Planning

Patient	Visit Type	Status
John Doe	Medical Assessment	Scheduled
Jane Smith	Medical Assessment	Scheduled
Bob Johnson	Medical Assessment	Scheduled
Alice Brown	Medical Assessment	Scheduled
Charlie White	Medical Assessment	Scheduled
Diana Green	Medical Assessment	Scheduled
Eve Black	Medical Assessment	Scheduled
Frank Gray	Medical Assessment	Scheduled
Grace Blue	Medical Assessment	Scheduled
Henry Yellow	Medical Assessment	Scheduled
Ivy Purple	Medical Assessment	Scheduled
Jack Orange	Medical Assessment	Scheduled
Karen Red	Medical Assessment	Scheduled
Liam Pink	Medical Assessment	Scheduled
Mia Brown	Medical Assessment	Scheduled

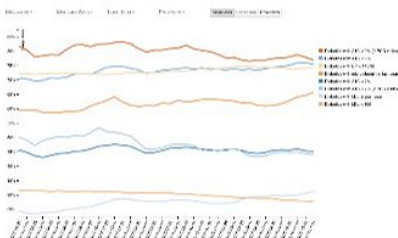
### Visit Calendar



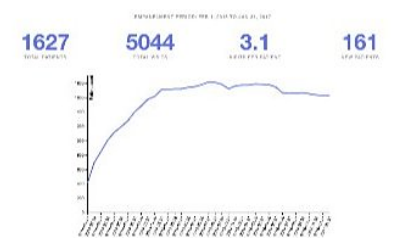
### Population Explorer



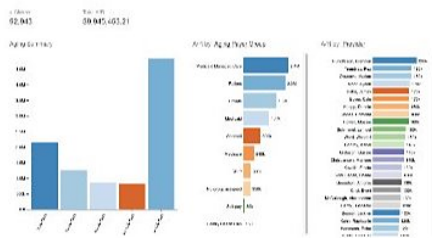
### Quality Measure Trends



### Panel Explorer



### A/R Aging




# Relevant Dashboards




# Asthmatic Patients: Asthma Action Plan

Measurement period: August 1, 2017—July 31, 2018

**COMPLIANCE**



89%

 **733**  
824

0 exclusions

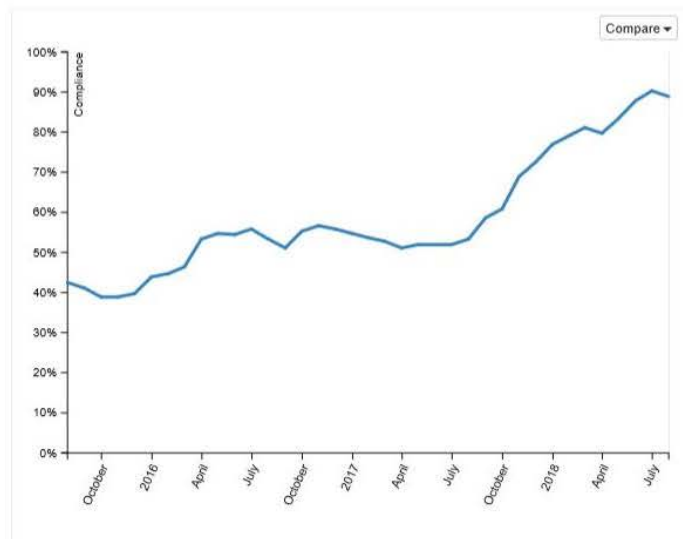
**TARGET**

Click here to set up a target

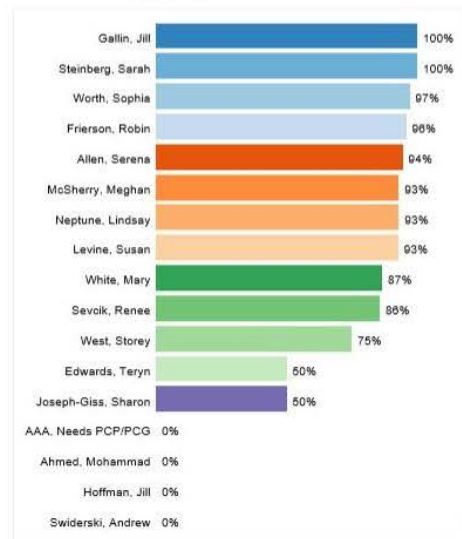
**FILTERS**

Locations 8 of 27

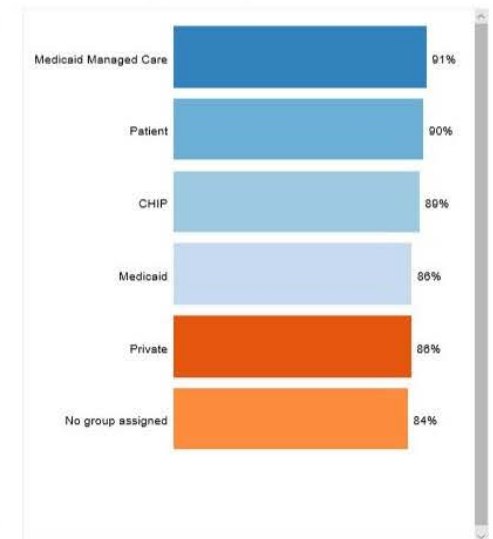
Compliance trend



Compliance by Provider



Compliance by Payer Group



# Quality Measure Dashboards

## Reports: SBHC Asthma Report - No quarterly asthma visit ?

### Description

Patients with a SBHC as a primary service location who have had a diagnosis of asthma at some point and have not had an asthma visit at a SBHC site in the quarter ending as of the "Quarter End Date".

### Query parameters

Quarter End Date

Location(s)

[▶ Run Report](#)

Results table +

Query Time: 65.049 sec.

Displaying 30 of 326 results

[Export](#)

Account No	Pt Name	Dob	Pcg	Primary Site	Quarterly Asthma Visit At Sbhc	Sbhc Visit Site	Quarterly Asthma Visit Other Site	Other Visit Site	Next Asthma Appt	Next Appt Site	Next Appt Provider	Annual Spirometry	Spiro Date	Spiro Result	Action Plan	Last Rx	Last Rx Date	First Asthma Visit Dx	First Asthma Visit Date	Fi A: Ty
70095	[REDACTED]	[REDACTED]	McSherry, Meghan	High School Port Chester	No visit in quarter		No visit in quarter		No appt scheduled			* Spirometry - Midmark	2017-11-27	Normal	2018-04-30	Flovent HFA	2017-08-09	2007-09-26		In
74534	[REDACTED]	[REDACTED]	Levine, Susan	High School Port Chester	No visit in quarter		No visit in quarter		2018-07-12	Edison Elementary School	Levine, Susan					Flovent	2017-10-31	2009-11-02		U

# Reports and Registries

# Port Chester School-Based Health Center Asthma Metrics

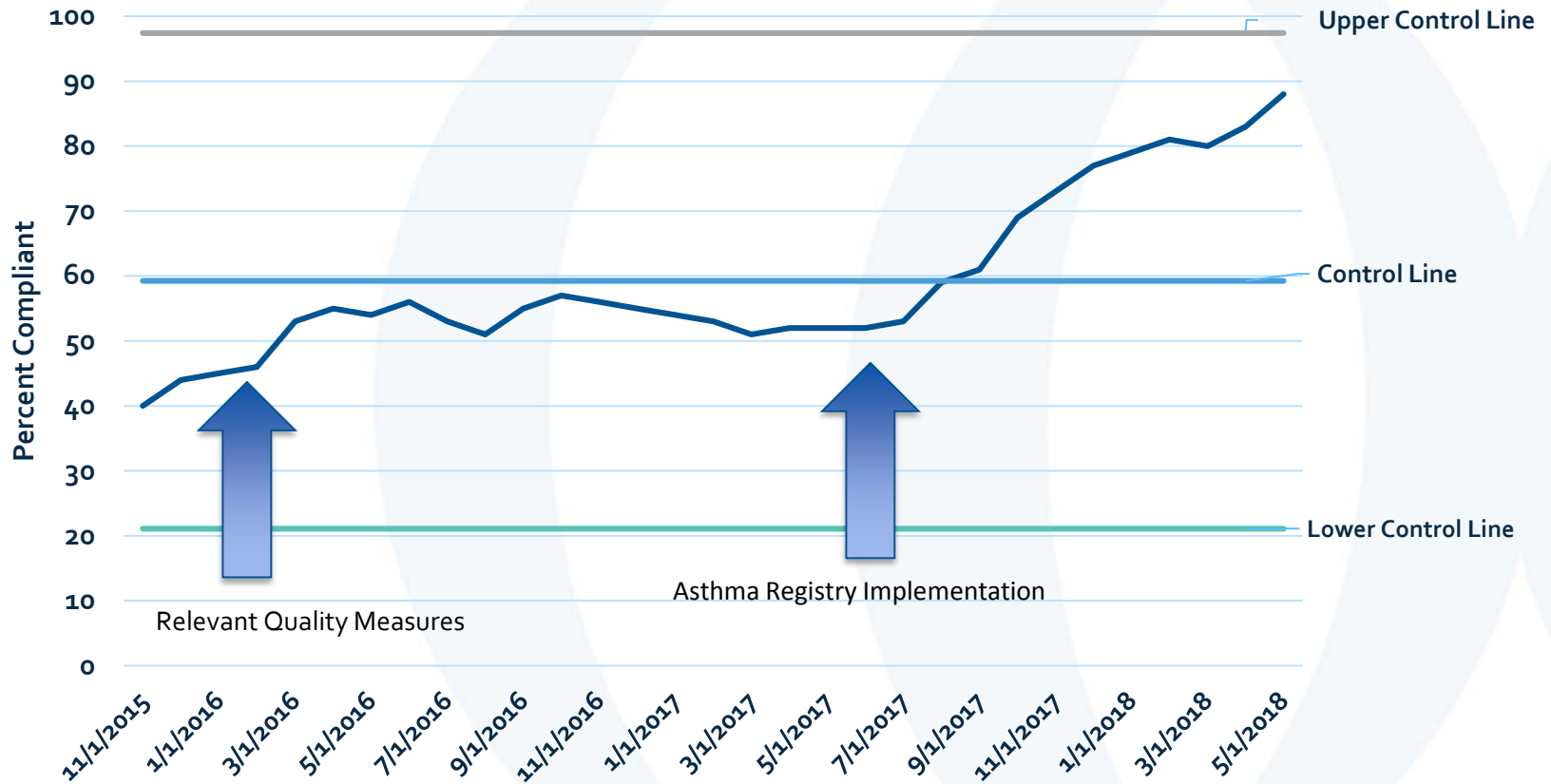
Time Frame	2007/2008	2014	2017
Missed School Days	376	28	<i>No longer tracked at school</i>
Asthma Severity Classification	15%	98%	98%
Persistent Asthmatics on an ICS	23%	87%	91%
Asthma Action Plan	15%	42%	76%
Asthma Well Controlled	50%	97%	96%
Acute Care Visits to SBHC	20	19	18
ED Visit Rate	24.7 per 10,000	S= less than 5-10 =Too low to count *	<i>2017 data not available</i>

Data Source: Open Door Family Medical Centers, Port Chester School District  
\*Westchester County age 0-17 ED visit data 2010-2012 SPARCS data as of Nov 2013

## Report Cards



# SBHC Asthma Action Plans



# SBHC Asthma Action Plans



**Center for Regional  
Healthcare Innovation**

PMO for WMCHHealth PPS

Westchester Medical Center Health Network



## **CURRENT:**

**DSRIP Payment for Actively  
Engaged Patients with  
Asthma Action Plans**

**\$11,500**

April 2015 through September 2017

## **FUTURE:**

**Value Based Payment  
Contract with MVP**

Improvement of medical  
expense management

# Quality Payments



# Thank You

**Lindsay Neptune, PNP**

Open Door Family Medical Centers

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Website: [opendoormedical.org](http://opendoormedical.org)



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