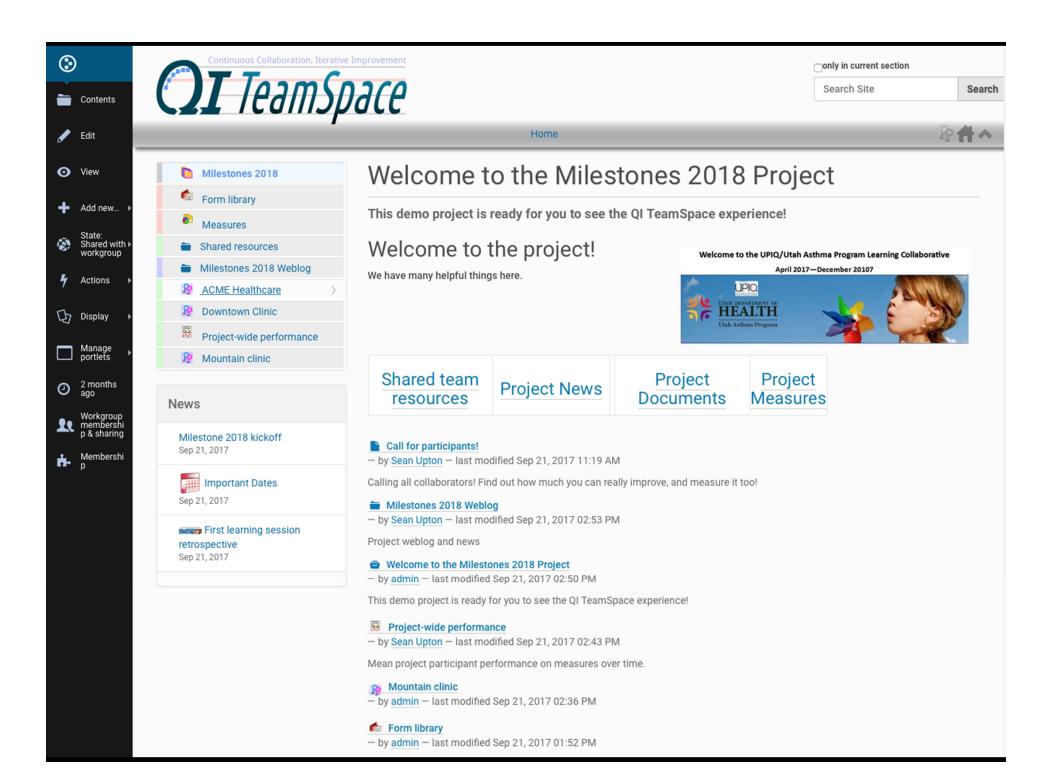
A web-based solution for managing quality improvement projects

- First iteration developed by Ursa Logic
- Re-developed with CHIPRA funding by Sean Upton, working with UPIQ
- Has been used by over 90 projects in 9 states
- Recently updated to Plone 5, the latest version of its web platform
- Project of the University of Utah's Department of Pediatrics

- Exists as a web site that can be customized/branded for each project
- No technical expertise needed, though training is important and ongoing support is provided

- Multiple project levels are possible, allowing for sub-projects
- Within projects, participant rosters are developed with teams (usually at the practice level)
- Each user is assigned a role (manager, data entry, view only) that determines privileges and access

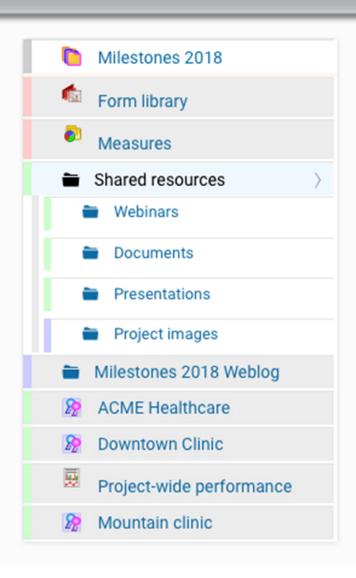


## Primary Components

- Content management and resource sharing (with teams, project, public)
  - Web pages
  - Files (Word, pdf, Excel), viewable online
  - Recorded webinars, videos
  - Blog/news feed
  - Calendar events
  - Discussion board planned
- Roster provides email lists for sending notices, reminders, resources



Home // Shared resources



### Shared resources

#### Webinars

- by Sean Upton - last modified Sep 21, 2017 02:11 PM

#### Documents

- by Sean Upton - last modified Sep 21, 2017 11:06 AM

#### Presentations

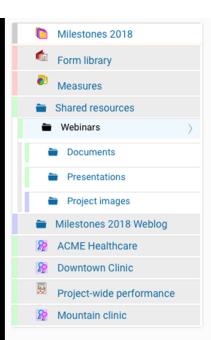
- by Sean Upton - last modified Sep 21, 2017 11:10 AM

Slide decks from project presentations are kept here.

#### Project images

- by Sean Upton - last modified Sep 21, 2017 11:20 AM

Publicly visible folder of images used by this project.

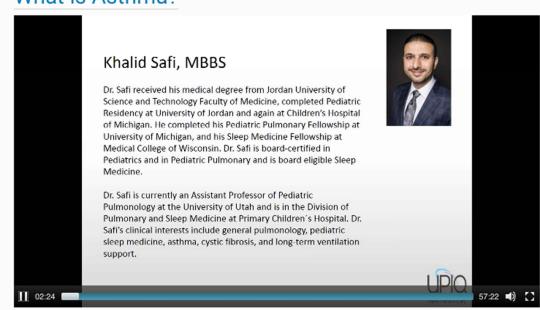


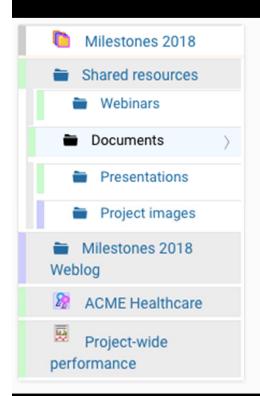
### Webinars

#### QI Fundamentals



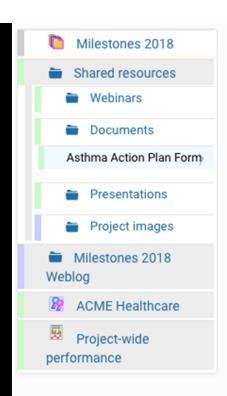
#### What is Asthma?



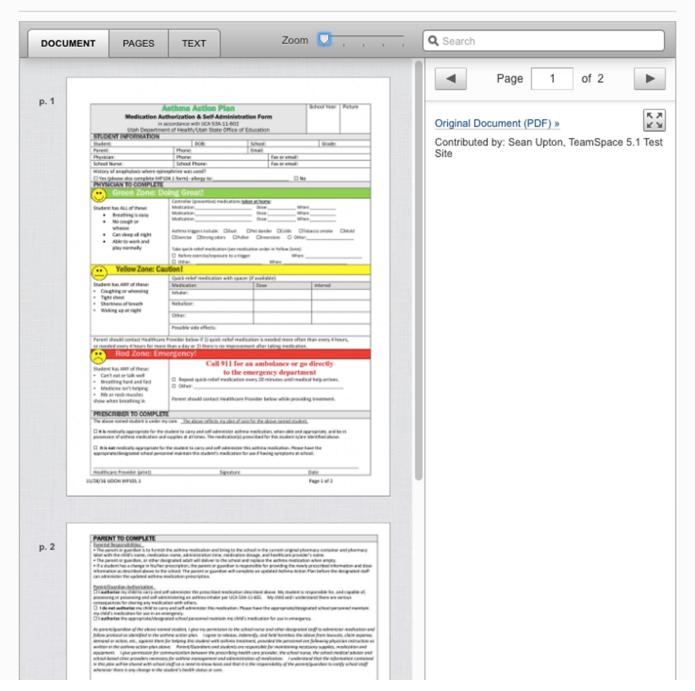


### **Documents**

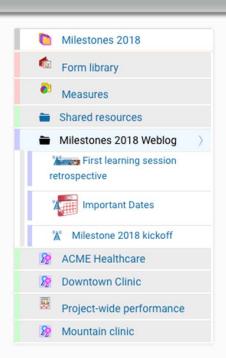
- School medication form
- by admin last modified Sep 21, 2017 11:04 AM
- 🔉 Asthma Action Plan Form
- by Sean Upton last modified Sep 21, 2017 11:06 AM



### Asthma Action Plan Form



dical Home Porta 🜟 Bookma					
	Asthma Action Pi			School Year:	Picture
Madiantian				Control Tour	1101010
	Authorization & Self-Adn in accordance with UCA 53A-1		m		
	ment of Health/Utah State C		า		
STUDENT INFORMATION					-
Student:	DOB:	School:		Grade:	
Parent:	Phone:	Email:			
Physician:	Phone:			Fax or email:	
School Nurse:	School Phone:		Fax or email:		
History of anaphylaxis where ∈  ☐ Yes (please also complete II			□No	0	
PHYSICIAN TO COMPLE				0	
	Doing Great!				
	Controller (preventive) med	ications taken at hom	e:		
Student has ALL of these:	Medication:	Dose:	Whe	en:	
<ul> <li>Breathing is easy</li> </ul>	Medication:	Dose: When: When:			
No cough or	Wedication.			CII	
wheeze     Can sleep all night	Asthma triggers include:		dander □Colds □Tobacco smoke □Mold		
Able to work and	□Exercise □Strong odors	□Pollen □Inve	ersions   Other	r:	
play normally	Take quick-relief medication	(see medication orde	r in Yellow Zone):		
	☐ Before exercise/exposur	e to a trigger			
Velley 7ener	Other:		When:		_
Yellow Zone:		111 215 21			
Student has ANY of these:	Quick-relief medication w			Interval	
Coughing or wheezing	Medication Inhaler:	Dose		Interval	
Tight chest					
<ul> <li>Shortness of breath</li> </ul>	Nebulizer:				
Waking up at night	Other:				
	Possible side effects:				



### Milestones 2018 Weblog

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed posuere interdum sem. Quisque ligula eros ullamcorper quis, lacinia quis facilisis sed sapien. Mauris varius diam vitae arcu. Sed arcu lectus auctor vitae, consectetuer et venenatis eget velit. Sed augue orci, lacinia eu tincidunt et eleifend nec lacus.

Hello

Donec ultricies nisl ut felis, suspendisse potenti. Lorem ipsum ligula ut hendrerit mollis, ipsum erat vehicula risus, eu suscipit sem libero nec erat. Aliquam erat volutpat. Sed congue augue vitae neque. Nulla consectetuer porttitor pede. Fusce purus morbi tortor magna condimentum vel, placerat id blandit sit amet tortor.

Milestone 2018 kickoff

■ - last modified 2017-09-21T12:16:11-06:00

Kickoff info for our project and its participants!

Read More...



### **Important Dates**

Remember these dates!

Read More...



## First learning session retrospective

■ - last modified 2017-09-21T14:07:42-06:00

Here is what we learned from our first learning session.

Read More...

Project weblog and news

Milestones 2018
Form library
Measures
Shared resources
Milestones 2018 Weblog
ACME Healthcare
Downtown Clinic
Project-wide performance
Mountain clinic

### Manage workgroup roles for this project

Milestones 2018 (Project)

(+) Add a user

View the project roster, as seen by non-manager members.

Export CSV listing of users and their assignments.

There are 10 workgroup members for this project.

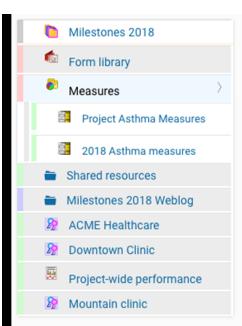
Workgroup members have assigned at minimum the "Project Viewers" group assignment.

To remove a user or send password email, click the lock icon ( $\bigcirc$ ) in the Project Viewers column to unlock the user for password reset or removal from project and/or site. To get more information about a user, click on the info icon ( $\bigcirc$ ) next to the user.

User name, email	Project group assign	Project group assignments					
	Project Viewers	Form entry	Project Contributors	Project managers			
Chuck Form	<b>√</b> a		0				
Chuck Norlin	<b>√</b> a		0	<b>Ø</b>			
Chuck Viewer	<b>√</b> a		0				
Chris Robinson	<b>√</b> a		0	<b>Ø</b>			
Sean Developer	<b>√</b> a		0				
Marie Curie	<b>√</b> a		0	<b>Ø</b>			
George Boole	<b>√</b> a		0				
Gregor Mendel	✓ ≘		0	0			
Ada Lovelace	<b>√</b> a		0				

## **Primary Components**

- Measure definition/construction
- Measure library
  - Measures can be re-used, modified for new projects





+ Create a Measure Group

Add a group of related measures and data sets

Browse measure groups

Q Search definitions in this library

Most-recently modified measure groups:

- 2018 Asthma measures
   Modified 2017/10/09 13:34:13.359730 GMT-6
- Project Asthma Measures
   Modified 2017/09/21 12:55:40.823254 GMT-6

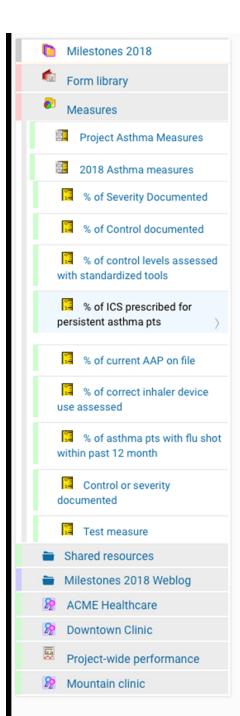
See all measure groups (2).

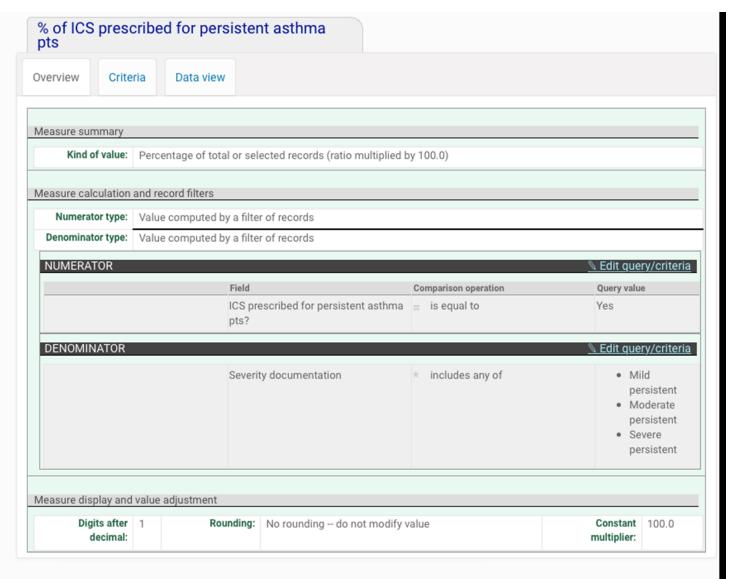
Most-recently modified measure definitions:

- Test measure
   Modified 2017/10/09 13:34:13.359730 GMT-6
- Control or severity documented
   Modified 2017/10/09 13:28:39.765291 GMT-6
- % of ICS prescribed for persistent asthma pts
   Modified 2017/05/18 13:14:51.209442 GMT-6
- % of ICS prescribed for persistent asthma pts
   Modified 2017/05/18 13:14:51.209442 GMT-6
- 3 % of asthma pts with flu shot within past 12 month Modified 2017/04/16 10:36:31.057866 GMT-6
- 3 % of asthma pts with flu shot within past 12 month Modified 2017/04/16 10:36:31.057866 GMT-6
- % of correct inhaler device use assessed
   Modified 2017/04/16 10:35:9.477914 GMT-6
- % of correct inhaler device use assessed Modified 2017/04/16 10:35:9.477914 GMT-6

Most-recently modified data sets:

{-} Downtown Clinic
 Modified 2017/09/21 12:55:40.622044 GMT-6



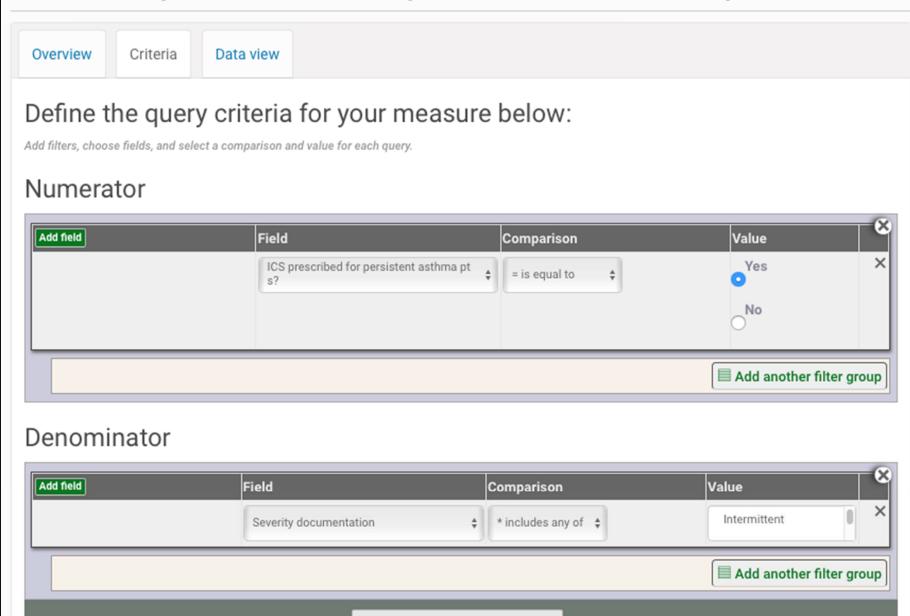


#### Add comment

You can add a comment by filling out the form below. Plain text formatting.

Comment .

### % of ICS prescribed for persistent asthma pts



√ Save criteria for all filters

## **Primary Components**

- Data collection system
  - Build online data collection forms
    - Chart review data
    - Aggregate data (numerators & denominators)
    - Qualitative data (survey-like questions)
  - Track data submission and completeness
  - Form library enables re-use & repurposing

## **Primary Components**

- Data collection system (cont.)
  - Constrain data entry by type
    - → Date or Date/Time
    - + Yes/No
    - Multiple choice (single or multiple selections)
    - Integer or floating point decimal
    - + Text
    - Computed (from entries in other fields)
    - + Email address or URL
  - Supports skip patterns



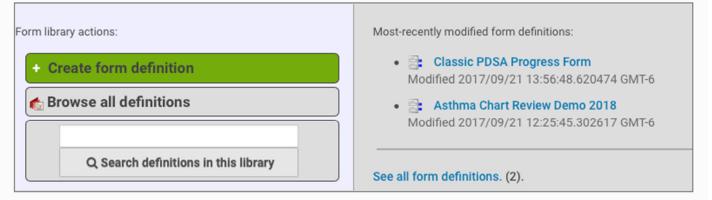
only in current section

Search Site

Home // Form library

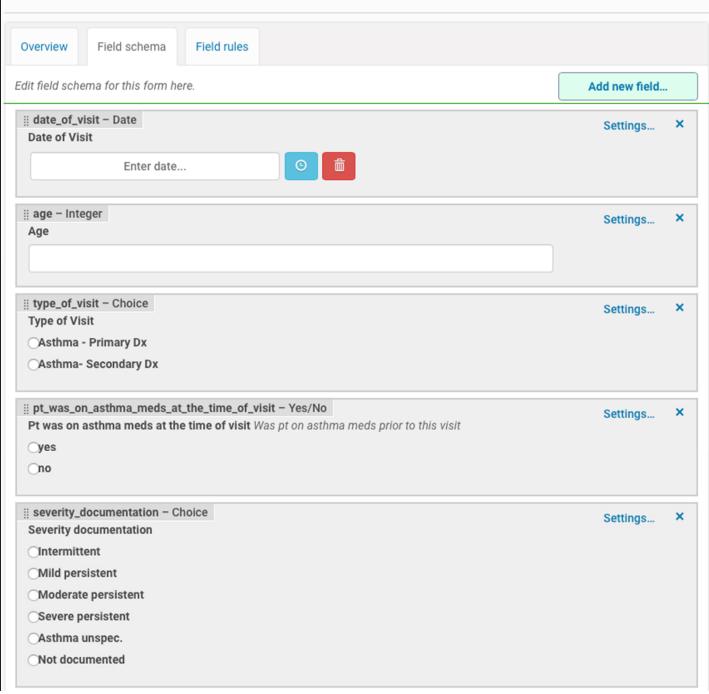


### Form library



Add new field	×
Title •	
Short Name • Used for programmatic access to the field.	
Help Text Shows up in the form as help text for the field.	
Field type •	
Text line (String)   Check this box if you want this field to be required.	
Required field Check this box if you want this field to be required.	
	Add

### Form schema: Asthma Chart Review Demo 2018





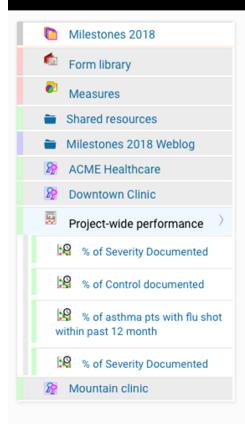
### Asthma Chart Review Demo 2018

Overview Field schema Field rules In use by (66)
Form overview / preview
Date of Visit
Date of Visit
Enter date
Age
Type of Visit
Asthma - Primary Dx
Asthma- Secondary Dx
Pt was on asthma meds at the time of visit Was pt on asthma meds prior to this visit
yes
по
Severity documentation
Intermittent
Mild persistent
Moderate persistent
Severe persistent
Asthma unspec.
Not documented
Control documentation Assessment of control only on pts who are on asthma meds prior to this visit
Well controlled
Not well controlled
Very poorly controlled
Not documented
○N/A

Assessment
Plan - Do - Study - Act
eedback
Rating (1-10) • Enter a rating between 1 and 10; higher numbers reflect a greater confidence in how well your team is reaching goals for this period.
0
Number of meetings?
Number of huddles?
Progress factors What were the factors that contributed toward your team's progress?
Follow ups What will you do differently next time to improve your score?
Plan Discussion items what is the issue?
Insert ▼ Format ▼ Edit ▼ Table ▼ Tools ▼ View ▼
Formats - B I U A - A - 巨豆豆豆 E - E - 豆豆 E = ※ ② SS

## Primary Components

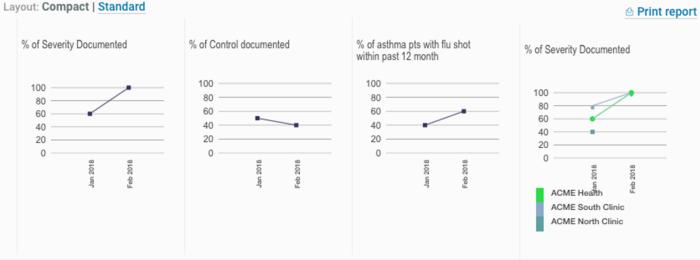
- Data reporting system
  - Run charts and bar charts automatically generated, includes multi-line charts
  - Configurable appearance (colors, shapes, goals)
  - Small multiples or full display
  - Annotatable reports; print-friendly
  - Data traceable to sources; notes displayed on click of data point
  - Can export to CSV/Excel



### Project-wide performance

Mean project participant performance on measures over time.





Manage this report

Add measure-based charts to report using population tool

- + Add time series chart to this report
- + Add named series chart to this report

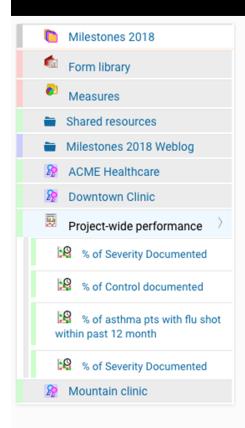
Edit report title or description

Re-order, remove, or rename report elements

Manage report themes

#### Current report components:

- 12% of Severity Documented
- 12% of Control documented
- 🕍 of asthma pts with flu shot within past 12 month
- 12% of Severity Documented



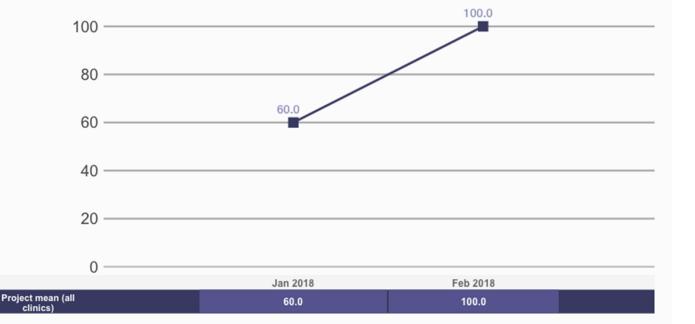
### Project-wide performance

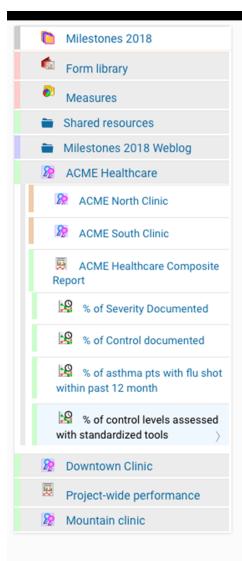
Mean project participant performance on measures over time.



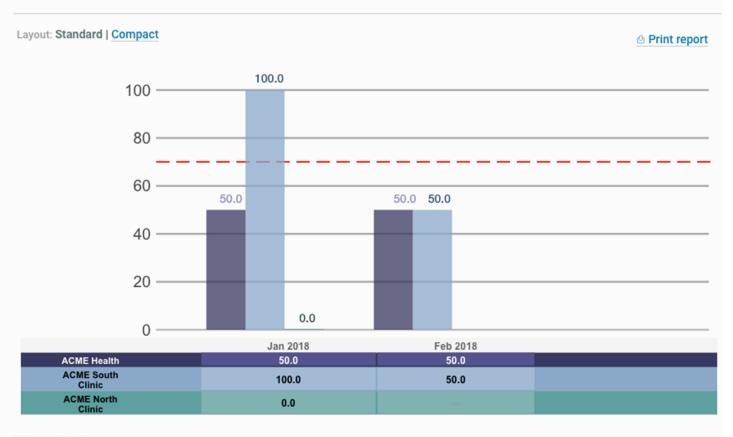


% of Severity Documented

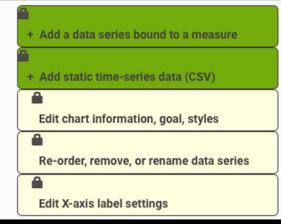




### % of control levels assessed with standardized tools







#### Current chart data:

- MACME Health
- ACME South Clinic
- ACME North Clinic

## Views differ by user type

- Manager view allows access to all information and ability to edit screens, reports, etc.
- Data entry and View only users see less complexity – only what they've been given privileges to see



Home





Milestone 2018 kickoff Sep 21, 2017



First learning session

retrospective Sep 21, 2017

### Welcome to the Milestones 2018 Project

This demo project is ready for you to see the QI TeamSpace experience!

### Welcome to the project!

We have many helpful things here.

Welcome to the UPIQ/Utah Asthma Program Learning Collaborative



Shared team resources

**Project News** 

Project Documents Project Measures

#### Call for participants!

- by Sean Upton - last modified Sep 21, 2017 11:19 AM

Calling all collaborators! Find out how much you can really improve, and measure it too!

#### Milestones 2018 Weblog

- by Sean Upton - last modified Sep 21, 2017 02:53 PM

Project weblog and news

#### Welcome to the Milestones 2018 Project

- by admin - last modified Sep 21, 2017 02:50 PM

This demo project is ready for you to see the QI TeamSpace experience!

#### Project-wide performance

- by Sean Upton - last modified Nov 10, 2017 08:18 PM

Mean project participant performance on measures over time.

#### Shared resources

- by admin - last modified Sep 21, 2017 11:19 AM

#### ACME Healthcare

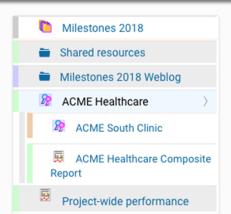
- by admin - last modified Sep 21, 2017 12:31 PM

only in current section

Search Site

Search

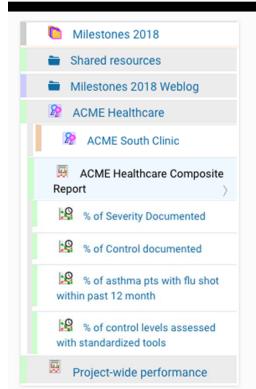
Home // ACME Healthcare



### **ACME Healthcare**

- ACME South Clinic
- by admin last modified Sep 21, 2017 01:39 PM
- ACME Healthcare Composite Report
- by Sean Upton last modified Sep 21, 2017 02:38 PM

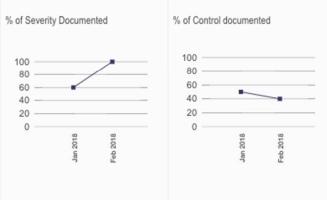
Report on ACME North and South, and average ACME Health performance vs project average(s).

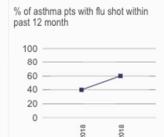


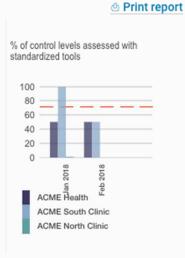
### ACME Healthcare Composite Report

Report on ACME North and South, and average ACME Health performance vs project average(s).

Layout: Compact | Standard







### Resources 123 abc def Milestones 2018 Shared resources Milestones 2018 Weblog **ACME Healthcare** ACME South Clinic Asthma Chart Review Forms Baseline - all providers -Asthma Chart Review Forms -Asthma Chart Review Forms February 2018 - all providers -Asthma Chart Review Forms March 2018 - all providers -Asthma Chart Review Forms April 2018 - all providers -Asthma Chart Review Forms May 2018 - all providers -Asthma Chart Review Forms June 2018 - all providers -Asthma Chart Review Forms July 2018 - all providers -Asthma Chart Review Forms

### Asthma Chart Review Forms

Overview

Quick links to recently applicable forms can be found below.

#### Unsubmitted past forms

No forms match this criteria.

#### Upcoming forms

- March 2018 all providers
- April 2018 all providers
- May 2018 all providers
- **June 2018 all providers**
- Handler July 2018 all providers
- Handler August 2018 all providers
- September 2018 all providers
- E October 2018 all providers
- November 2018 all providers
- B December 2018 all providers

#### Submitted recently

- Baseline all providers
- February 2018 all providers

#### Other information about this form series:

Series title: Asthma Chart Review Forms

This is a form series defined for the period of 2018-01-01 to 2018-12-31.

#### Asthma Chart Review Forms: March 2018 - all providers This form's reporting period is dated from 2018-03-01 to 2018-03-31. [HIDE metadata and instructions.] 1. ⋉ △ **Date of Visit** Type of Visit Age Asthma - Primary Dx Enter date... Asthma- Secondary Dx Pt was on asthma meds at the time of Severity documentation visit Intermittent Was pt on asthma meds prior to this Mild persistent visit Moderate persistent Severe persistent O yes Asthma unspec. O no Not documented Was a standardized control ICS prescribed for persistent asthma Current AAP on file assessment tool used? Date on AAP must be within the last 12 months ACT or GINA O yes O yes O no O no Did pt receive Flu Vaccine within the Was correct device use assessed? past 12 months? O yes O yes O no O no + Add record(s) Process changes or notes Enter any notes pertaining to this period. ✓ Save form as draft → Save and submit form

# Questions, suggestions, critique are welcome

chuck.norlin@hsc.utah.edu