

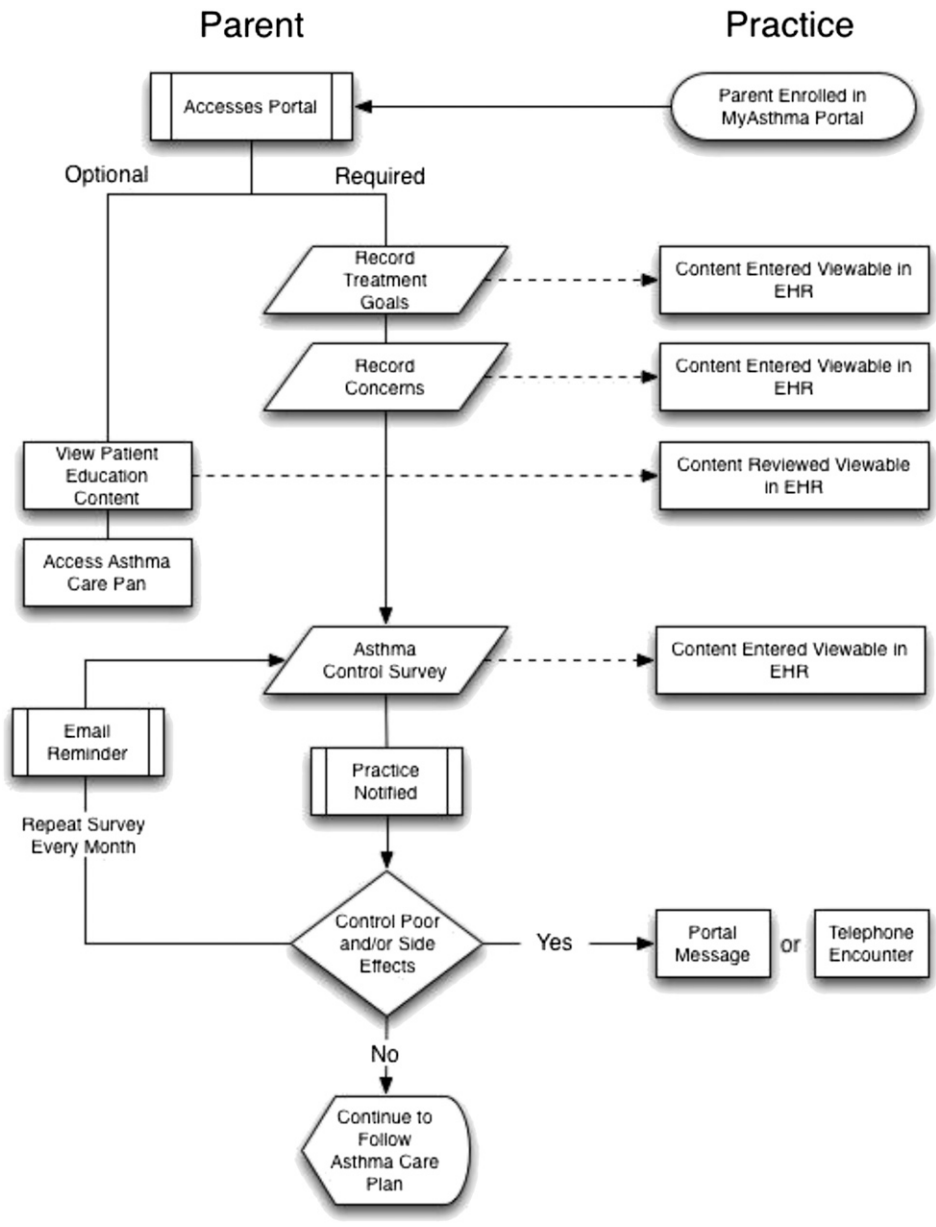
## Supplemental Information

### APPENDIX 1. MYASTHMA WORKFLOW

Parents were enrolled in MyAsthma onsite at their child's primary care practice. The parent accessed the parent interface of the MyAsthma portal online and initially recorded treatment goals and treatment concerns related to asthma, which were viewable by clinicians in the EHR via the clinician interface. Parents then completed an asthma control survey, the results of

which were recorded in a timeline on both the parent and clinician interfaces. The family and the practice both received the results of the survey and were given decision support based on the results; if poor control or side effects were entered, families were notified to call the practice and the practice was notified to contact families, either via a portal message or telephone encounter. If control was not poor and there were no side effects, parents were directed to continue fol-

lowing their child's asthma care plan. E-mail reminders were sent to families each month to remind them to complete the monthly control survey. Optional functions of MyAsthma included viewing patient education content (videos and handouts) and accessing their child's asthma care plan, a document generated in the office. Clinicians could recommend specific educational content to families via the portal and could view whether the family had viewed the content.



**APPENDIX 2. THE MYASTHMA PORTAL: FEATURES**

Homepage: The MyAsthma Homepage displayed the timeline of monthly asthma

control survey results, as well as parents' concerns and goals for asthma care. ©2014 The Children's Hospital of Philadelphia. All Rights Reserved.



<a href="#">MyAsthma Home</a>	<a href="#">Asthma Education</a>	<a href="#">Care Plan</a>	<a href="#">Care Team</a>
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<b>Check-in Survey</b> ✓ You are up-to-date! Next check-in: Oct 1, 2014 Last check-in: Sep 11, 2014	<b>Goals</b> <a href="#">Edit</a> <b>Parent's Goal:</b> not miss work due to child's asthma <b>Child's Goal:</b> NOT miss school	<b>Concerns</b> <a href="#">Edit</a> Steroids impacting growth Cost of medication Impact on life Time to manage medications <b>Other:</b> taste of prednisone
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**Check-in Survey Timeline**

■ No concern   
 ■ Of concern   
 ■ Major concern

Asthma Control Assessment	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Asthma control	Well	Well	Well	Uncontrolled	Uncontrolled	Poor	Well	Well	Well	Well	Well	Well
Meeting goals	Very much	Very much	Moderately	Slightly	Slightly	Moderately	Very much	Very much	Very much	Very much	Very much	Very much
Managing concerns	Very much	Very much	Moderately	Moderately	Definitely	Definitely	Very much	Very much	Definitely	Very much	Very much	Very much
Side effects	No	No	No	No	Yes	No	No	No	No	No	No	No
Missed school/day care	1	0	2	0	2	0	0	0	0	0	0	0
ER or urgent care visit	0	0	0	0	0	0	0	0	0	0	0	0
Hospital admission	0	0	0	0	0	0	0	0	0	0	0	0
Steroid by mouth	0	0	0	0	1	0	0	0	0	0	0	0
Home/school disruption	None of the time	None of the time	A little of the time	Some of the time	Some of the time	None of the time	A little of the time	A little of the time	A little of the time	None of the time	None of the time	None of the time
Shortness of breath	Not at all	Not at all	Once or twice a week	Once a day	2 or 3 nights a week	Once or twice a week	Not at all	Not at all	Not at all	Not at all	Not at all	Not at all
Symptoms at night	Not at all	Not at all	Once or twice a week	2 or 3 nights a week	2 or 3 nights a week	Once a week	Once or twice a week	Once or twice a week	Once or twice a week	Once or twice a week	Not at all	Once or twice a week
Rescue inhaler/nebulizer	Not at all	Once a week or less	Once a week or less	1 or 2 times per day	1 or 2 times per day	Once a week or less	Once a week or less	Once a week or less	Once a week or less	Once a week or less	Not at all	Not at all
Parent rating of control	Completely controlled	Well controlled	Well controlled	Poorly controlled	Somewhat controlled	Somewhat controlled	Completely controlled	Completely controlled	Completely controlled	Completely controlled	Completely controlled	Completely controlled
Taking medications	More than half	More than half	More than half	All	All	All	More than half	More than half	More than half	All	More than half	All

Education: Both videos and handouts were available through MyAsthma.

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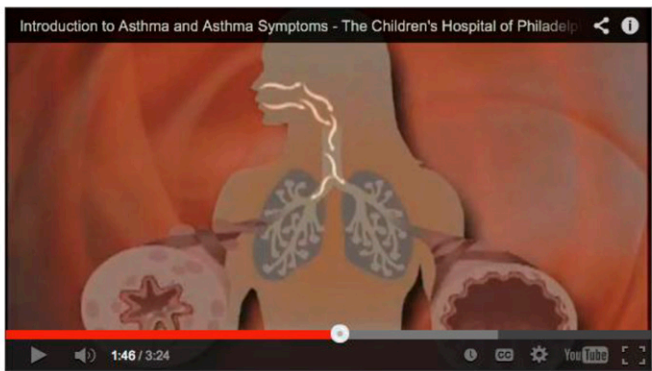


MyAsthma Home	Asthma Education	Care Plan	Care Team
<b>Education</b>			
Education materials help everyone better understand your child's asthma and treatment.			
<b>General</b>		<b>Viewed</b>	<b>Provider Recommended</b>
Asthma Intro: What is Asthma & Symptoms	<a href="#">Watch video...</a>	10/3/2014	
Asthma Flares	<a href="#">Watch video...</a>		
Asthma: What is it?	<a href="#">View handout...</a>	10/3/2014	
<b>Triggers</b>		<b>Viewed</b>	<b>Provider Recommended</b>
Asthma Triggers	<a href="#">Watch video...</a>	10/3/2014	
Asthma Triggers	<a href="#">View handout...</a>	10/3/2014	
Cigarette Smoke	<a href="#">View handout...</a>	10/3/2014	
Cockroaches	<a href="#">View handout...</a>		
Dust Mites	<a href="#">View handout...</a>		
How Asthma-Friendly Is Your Child-Care Setting?	<a href="#">View handout...</a>		
Molds	<a href="#">View handout...</a>		
Pets and Animals	<a href="#">View handout...</a>		
Protect your children; Take the smoke-free home pledge	<a href="#">View handout...</a>		
<b>Medications</b>		<b>Viewed</b>	<b>Provider Recommended</b>
Asthma Medications	<a href="#">Watch video...</a>		
Asthma Med Concerns	<a href="#">Watch video...</a>		
How to use your Dry Powder Inhaler	<a href="#">View handout...</a>		
How to use a Metered Dose Inhaler with a Facemask	<a href="#">View handout...</a>		
How to use a Metered Dose Inhaler with a Mouthpiece	<a href="#">View handout...</a>		
Metered Dose Inhaler Guide	<a href="#">View handout...</a>		
<b>Control</b>		<b>Viewed</b>	<b>Provider Recommended</b>
Asthma Control	<a href="#">Watch video...</a>		
Asthma Care Plan	<a href="#">Watch video...</a>		
<b>For Kids</b>		<b>Viewed</b>	<b>Provider Recommended</b>
Kids Health Galaxy	<a href="#">Watch video...</a>	10/3/2014	
Asthma Fast Facts for Kids	<a href="#">View handout...</a>		
<a href="#">Home</a>			

# MyAsthma

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- [Asthma Education](#)
- [Care Plan](#)
- [Care Team](#)

## Asthma Intro: What is Asthma & Symptoms



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Decision Support: On completion of the monthly control survey, both parents

and clinicians received the results as well as decision support. ©2014 The

Children's Hospital of Philadelphia. All Rights Reserved.

**MyAsthma**

**Check-in Results**

**Your child's asthma is:** **⚠ UNCONTROLLED**  
You reported your child is experiencing medication side effects

**Instructions:** Please call your doctor's office to discuss your child's asthma control and side effects.

The results of the check-in have been sent to your doctor's office.

You can always call or [send a message](#) to your doctor's office with any questions.

**If this is a medical emergency, please call 911.**

Would you like to learn more about asthma with CHOP videos and handouts?

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**MyAsthma**

**Check-in Results**

**Your child's asthma is:** **✔ WELL CONTROLLED**

**Instructions:** Please continue to follow your asthma care plan.

The results of the check-in have been sent to your doctor's office.

You can always call or [send a message](#) to your doctor's office with any questions.

**If this is a medical emergency, please call 911.**

Would you like to learn more about asthma with CHOP videos and handouts?

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