COPD Action Plan

Rob Chamberlain  
*Maine Medical Center*

Samantha Marrier  
*Maine Medical Center*

Karin Doehne  
*Maine Medical Center*

Martine Eon  
*Maine Medical Center*

Penny Binette  
*Maine Medical Center*

*See next page for additional authors*

Follow this and additional works at: [https://knowledgeconnection.mainehealth.org/mmc](https://knowledgeconnection.mainehealth.org/mmc)  
Part of the [Respiratory Tract Diseases Commons](https://knowledgeconnection.mainehealth.org/mmc)
COPD is a significant driver of patient morbidity and mortality, as well as being associated with increased cost utilization. Acute exacerbations of COPD are a common cause for ED utilization.

**Problem/Impact Statement:**
COPD is a significant driver of patient morbidity and mortality, as well as being associated with increased cost utilization. Acute exacerbations of COPD are a common cause for ED utilization.

**Scope:**
In Scope: Primary Care adult patients - MMC Adult IM, MMC IM/Peds, Lakes Region
Out of Scope: Inpatient, admissions

**Goal/Objective:**
Increase the rate of COPD patients with an Action Plan in Primary Care to 18% by December 31, 2018.

**Baseline Metrics/Current State:**
![Graph showing % of Patients with an Action Plan]

- **MMI Adult IM:** 18%
- **MMI IM/Peds:** 9%
- **Lakes Region:**

**Root Cause Analysis:**
![Graph showing ED Visits and Action Plans]

Less than 4% of COPD patients at the pilot sites who had an ED visit for an COPD exacerbation in the past year had an Action Plan at the time of their visit.

**Countermeasures**

<table>
<thead>
<tr>
<th>Completion Plan Item (What)</th>
<th>Who</th>
<th>By When</th>
<th>Status</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determine baseline data</td>
<td>Sam</td>
<td>4/1/2018</td>
<td></td>
<td>4/5/2018</td>
</tr>
<tr>
<td>Develop ideal workflow for use of Action Plan</td>
<td>Team</td>
<td>6/1/2018</td>
<td>✔️</td>
<td>6/30/2018</td>
</tr>
<tr>
<td>Identify Pilot Sites</td>
<td>Team</td>
<td>6/1/2018</td>
<td>✔️</td>
<td>6/1/2018</td>
</tr>
<tr>
<td>Initiate Pilot</td>
<td>Team</td>
<td>8/1/2018</td>
<td>✔️</td>
<td>8/6/2018</td>
</tr>
<tr>
<td>Plan for spread</td>
<td>Team</td>
<td>10/1/2018</td>
<td>✔️</td>
<td>10/1/2018</td>
</tr>
</tbody>
</table>

**Outcomes**

- **Increased the rate of Action Plans to 11.1%**
- **Barriers:**
  - Provider buy in
  - Increased visit time required
  - Epic functionality

**Next Steps**
- Gain increased buy in from providers and Care Managers by providing further education around action plans and inhaler use by January 2019.
- Initiate a small scale spread to a site with a Pharmacist by January 2019.
- Improve Epic functionality including developing a SmartForm for easier documentation by April 2019.