

# EQIPP: Asthma

## Hospitalist Measures

Key Activity and Aim	Data Collection Question	Measure	Goal
<p><u>Key Activity:</u> <b>Hospital Initial Assessment and Management</b></p> <p><u>Aim:</u> Obtain and document a focused patient history for 90% of all patients with a reported asthma exacerbation</p>	<p>1. Was a focused patient history obtained and documented that includes <b>all</b> of the following?</p> <ul style="list-style-type: none"> <li>• Present illness, including current triggers</li> <li>• Current management plans for chronic and acute asthma, including adherence to the medication regimen</li> <li>• Previous inpatient history and risk factors for sudden death from asthma</li> <li>• Other relevant medical problems</li> </ul> <p>  Yes   No</p>	<p><u>Measure name</u> Focused Patient History</p> <p><u>Measure definition</u> % of patients with a focused patient history obtained and documented</p> <p><u>Numerator/denominator</u> The number of patients with a focused patient history obtained and documented is the numerator (x) in the equation; the number of all patients with asthma exacerbation is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 1: Was a focused patient history obtained and documented that includes all of the following?</p> <ul style="list-style-type: none"> <li>• Present illness, including current triggers</li> <li>• Current management plans for chronic and acute asthma, including adherence to the medication regimen</li> <li>• Previous inpatient history and risk factors for sudden death from asthma</li> <li>• Other relevant medical problems</li> </ul> <p><u>Aggregate</u> Numerator: Value of #2 Denominator: (Total Charts ) Value of # 1</p>	90%
<p><u>Aim:</u> Complete and document a physical examination for 90% of all patients with a reported asthma exacerbation that includes the following:</p> <ul style="list-style-type: none"> <li>• Full vital signs</li> <li>• General assessment</li> <li>• Head, eyes, ears, nose, and throat (HEENT)</li> <li>• Cardiac examination</li> <li>• Respiratory examination, including pulse oximetry and degree of dyspnea</li> </ul>	<p>2. Was a physical examination completed and documented for this patient that includes the following?</p> <ul style="list-style-type: none"> <li>• Full vital signs</li> <li>• General assessment</li> <li>• Head, eyes, ears, nose, and throat</li> <li>• Cardiac examination</li> <li>• Respiratory examination, including pulse oximetry and degree of dyspnea</li> <li>• Abdominal examination</li> <li>• FEV<sub>1</sub> or PEF measurements, as appropriate</li> </ul>	<p><u>Measure name</u> Physical Examination</p> <p><u>Measure definition</u> % of patients with physical examination completed and documented</p> <p><u>Numerator/denominator</u> The number of patients with a physical examination completed and documented is the numerator (x) in the equation; the number of all patients with asthma exacerbation is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 2: Was a physical examination completed and documented for this patient that includes the following?</p> <ul style="list-style-type: none"> <li>• Full vital signs</li> </ul>	90%



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<ul style="list-style-type: none"> <li>Abdominal examination</li> <li>Forced expiratory volume in the first second of expiration (FEV<sub>1</sub>) or peak expiratory flow (PEF) measurements, as appropriate</li> </ul>	Yes   No	<ul style="list-style-type: none"> <li>General assessment</li> <li>HEENT</li> <li>Cardiac examination</li> <li>Respiratory examination, including pulse oximetry and degree of dyspnea</li> <li>Abdominal examination</li> <li>FEV<sub>1</sub> or PEF measurements, as appropriate</li> </ul> <p><u>Aggregate</u>            Numerator: Value of #3            Denominator: Value of # 1</p>	
<p><u>Aim:</u></p> <p>Assess and document the severity classification of the patient's current asthma exacerbation for 90% of all patients with a reported asthma exacerbation according to National Heart, Lung, and Blood Institute (NHLBI) guidelines (mild, moderate, or severe) or according to a hospital-based order set that aligns with the guidelines</p>	3. Was the severity of the patient's current asthma exacerbation classified and documented according to NHLBI guidelines or according to a hospital-based order set that aligns with the guidelines?    Yes   No	<p><u>Measure name</u>            Classify Exacerbation Severity</p> <p><u>Measure definition</u>            % of patients with asthma exacerbation severity classified and documented</p> <p><u>Numerator/denominator</u>            The number of patients with asthma exacerbation severity classified and documented is the numerator (x) in the equation; the number of all patients with asthma exacerbation is the denominator (y).</p> <p><u>Source</u>  <b>Yes</b> response to Question 3: Was the patient's current asthma exacerbation severity classified and documented according to NHLBI guidelines (mild, moderate, or severe), or according to a hospital-based order set that aligns with the guidelines?</p> <p><u>Aggregate</u>            Numerator: Value of #4            Denominator: Value of # 1</p>	90%
<p><u>Aim:</u></p> <p>Document that appropriate therapy was initiated based on the severity classification of the patient's current asthma exacerbation for 90% of all patients with a reported asthma exacerbation. This includes appropriate dose and</p>	4. Was therapy initiated based on the severity classification of the patient's current asthma exacerbation and documented in the patient's chart? This includes appropriate dose and frequency of: <ul style="list-style-type: none"> <li>Short-acting beta<sub>2</sub>- agonist</li> <li>Systemic corticosteroids</li> </ul>	<p><u>Measure name</u>            Medication: Initiate Therapy Based on Severity</p> <p><u>Measure definition</u>            % of patients with appropriate clinical course based on asthma severity classification, which has been followed and documented</p> <p><u>Numerator/denominator</u>            The number of patients with appropriate therapy initiated and documented based on the severity classification of the current asthma</p>	90%

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<p>frequency of:</p> <ul style="list-style-type: none"> <li>Short-acting beta<sub>2</sub>-agonist (SABA)</li> <li>Systemic corticosteroids, including any corticosteroids given before admission</li> <li>Oxygen, if needed</li> </ul>	<ul style="list-style-type: none"> <li>Oxygen, if needed</li> </ul> <p>  Yes</p> <p>  No</p>	<p>exacerbation is the numerator (x) in the equation; the number of all patients with asthma exacerbation is the denominator (y).</p> <p><u>Source</u>  <b>Yes</b> response to Question 4: Was therapy initiated based on the severity classification of the patient's current asthma exacerbation and documented in the patient's chart? This includes appropriate dose and frequency of:</p> <ul style="list-style-type: none"> <li>Short-acting beta<sub>2</sub>-agonist</li> <li>Systemic corticosteroids</li> <li>Oxygen, if needed</li> </ul> <p><u>Aggregate</u>            Numerator: Value of #5            Denominator: Value of # 1</p>	
<p><u>Key Activity:</u>  <b>Hospital Course</b></p> <p><u>Aim:</u>            Monitor and document the patient's response to therapy by repeating the clinical assessment in a timely manner and ensuring that the results are reviewed by the attending physician for 90% of all patients with asthma</p>	<p>5. Was the patient's response to therapy monitored with serial assessments and documented in the patient's chart by a hospital care team member?</p> <p>  Yes</p> <p>  No</p> <p><b>If yes:</b></p> <p>6. Were the assessment results reviewed by the attending physician?</p> <p>  Yes</p> <p>  No</p>	<p><u>Measure name</u>            Serial Assessment With Review by Attending Physician</p> <p><u>Measure definition</u>            % of patients whose response to therapy is monitored by repeated assessment with results reviewed by the attending physician</p> <p><u>Numerator/denominator</u>            The number of patients with repeated assessment results reviewed by the attending physician is the numerator (x) in the equation; the number of all patients with response to therapy monitored with serial assessments is the denominator (y).</p> <p><u>Source</u>  <b>Yes</b> response to Question 5: Was the patient's response to therapy monitored with serial assessments and documented in the patient's chart by a hospital care team member? AND <b>Yes</b> response to Question 6: Were the assessment results reviewed by the attending physician?</p> <p><u>Aggregate</u>            Numerator: Value of #7            Denominator: Value of # 6 (Note: Value of 7 cannot be greater than the value of 6)</p>	90%
<p><u>Aim:</u>            Provide and explain self-management and educational materials to 90% of all patients with</p>	<p>7. Were asthma self- management education and materials (in conjunction with the discharge plan and asthma action plan) provided and</p>	<p><u>Measure name</u>            Patient Education</p> <p><u>Measure definition</u>            % of patients in whom asthma self-management education materials (in</p>	90%



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asthma so that they have the skills necessary to control the asthma and improve outcomes	<p>explained to the patient and family?</p> <p><i>(Examples: proper spacer technique, tips for smoking cessation, and control of environmental factors that trigger asthma. To qualify, education and materials should extend beyond the asthma action plan and discharge plan.)</i></p> <p>  Yes</p> <p>  No</p>	<p>addition to the asthma action plan and discharge plan) are provided and explained</p> <p><u>Numerator/denominator</u> The number of patients who have self-management education materials (in addition to the asthma action plan and discharge plan) provided and explained is the numerator (x) in the equation; the number of all patients with asthma exacerbation is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 7: Were asthma self-management education and materials (in conjunction with the discharge plan and asthma action plan) provided and explained to the patient and family?</p> <p><u>Aggregate</u> Numerator: Value of #8 Denominator: Value of # 1</p>	
<p><u>Aim:</u> Recommend an annual inactivated influenza vaccination for 100% of all patients who are 6 months of age or older and undergoing regular asthma therapy to avoid increased risk of complications from influenza</p>	<p>8. Was an influenza vaccine administered or recommended and documented for the patient within the past 12 months?</p> <p>  Yes</p> <p>  No</p> <p>  NA - Patient younger than 6 months, has other contraindications, or vaccine unavailable</p>	<p><u>Measure name</u> Influenza Vaccination</p> <p><u>Measure definition</u> % of patients with asthma ages 6 months or older who have received an influenza vaccination or recommendation for influenza vaccination within the past 12 months</p> <p><u>Numerator/denominator</u> The number of patients with asthma who have received an influenza vaccination or a recommendation for an influenza vaccination within the past 12 months is the numerator (x) in the equation; the number of all patients with asthma exacerbation MINUS N/A – Patient younger than 6 months, has other contraindications, or vaccine unavailable is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> or <b>NA</b> (Patient younger than 6 months, other contraindications, or vaccine unavailable) response to Question 8: Was influenza vaccine administered or recommended for the patient within the past 12 mon.?</p> <p><u>Aggregate</u> Numerator: Value of #9 Denominator: Value of # 1 – Value of 9A (Note: value of 9 + 9A cannot be greater than total # of charts)</p>	90%

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Key Activity and Aim	Data Collection Question	Measure	Goal
<p><u>Key Activity:</u> <b>Discharge Planning</b></p> <p><u>Aim:</u> Develop and review written asthma action plan with input from the patient and family and PCP, as available, for 90% of all patients with asthma, before discharge</p>	<p>9. Was a written asthma action plan created with input from the patient and family and primary care physician (PCP), as available, and explained before discharge?</p> <p>  Yes   No</p>	<p><u>Measure name</u> Asthma Action Plan</p> <p><u>Measure definition</u> % of patients who have a written asthma action plan provided and explained to them before discharge</p> <p><u>Numerator/denominator</u> The number of patients with a written asthma action plan provided and reviewed before discharge is the numerator (x) in the equation; the number of all patients with asthma is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 9: Was a written asthma action plan created with input from the patient and family and PCP, as available, and explained before discharge?</p> <p><u>Aggregate</u> Numerator: Value of #10 Denominator: Value of # 1</p>	90%
<p><u>Aim:</u> Provide and explain a written hospital discharge plan to 90% of all patients before discharge from the hospital</p>	<p>10. Was a written discharge plan provided and explained to the patient and family?</p> <p>  Yes   No</p>	<p><u>Measure name</u> Hospital Discharge Plan</p> <p><u>Measure definition</u> % of patients who have a written hospital discharge plan provided and explained to them</p> <p><u>Numerator/denominator</u> The number of patients with a written discharge plan provided and reviewed is the numerator (x) in the equation; the number of all patients with asthma is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 10: Was a written discharge plan provided and explained to the patient and family?</p> <p><u>Aggregate</u> Numerator: Value of #11 Denominator: Value of # 1</p>	90%

Key Activity and Aim	Data Collection Question	Measure	Goal
<p><u>Aim:</u> Recommend a follow-up appointment to monitor asthma control for 90% of all patients with asthma, before discharge</p>	<p>11. Was a follow-up appointment with a PCP or asthma clinic recommended to monitor asthma control?</p> <p>  Yes   No</p>	<p><u>Measure name</u> Follow-up</p> <p><u>Measure definition</u> % of patients for whom a follow-up appointment to monitor asthma control is recommended</p> <p><u>Numerator/denominator</u> The number of patients for whom a follow-up appointment is recommended to monitor asthma control the numerator (x) in the equation; the number of all patients with asthma is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> response to Question 11: Was a follow-up appointment with a PCP or asthma clinic recommended to monitor asthma control?</p> <p><u>Aggregate</u> Numerator: Value of #12 Denominator: Value of # 1</p>	
<p><u>Aim:</u> Provide copies of the patient's discharge plan and asthma action plan to the patient's PCP or asthma clinic for 90% of all patients with an asthma exacerbation</p>	<p>12. Were the patient's discharge and asthma action plans transmitted to the PCP or asthma clinic?</p> <p>  Yes   No   NA – Copies provided to the patient with instructions to take the plans to the follow-up appointment</p>	<p><u>Measure name</u> Transmit Discharge Plan and Asthma Action Plan to PCP</p> <p><u>Measure definition</u> % of patients for whom a discharge plan and asthma action plan are provided to the patient's PCP or asthma clinic</p> <p><u>Numerator/denominator</u> The number of patients for whom a discharge plan and asthma action plan are provided to the patient's PCP or asthma clinic is the numerator (x) in the equation; the number of all patients with asthma MINUS NA – Copies provided to the patient with instructions to take the plans to the follow-up appointment is the denominator (y).</p> <p><u>Source</u> <b>Yes</b> or <b>NA</b> response to Question 12: Were the patient's discharge plan and asthma action plan transmitted to the PCP or asthma clinic?</p> <p><u>Aggregate</u> Numerator: Value of #13 Denominator: Value of # 1 – 13A (Note: Value of 13 + 13A cannot be greater than total number of charts)</p>	90%