

Section 2: Both Initial Management Treatment Follow-up

	Both Initial Management and Treatment Follow-up	Numerator	Denominator	Data Sources in DoD/VA Systems	Type of Monitoring (Routine vs. Special Study)	Median Rating	Average Rating (0 to 10)	Comments
Recommended								
Process Measures								
3	% asthma visits with documented asthma severity level	Number of ambulatory visits with asthma ICD9 code as primary reason for visit and documentation of asthma severity level during the visit	Number of ambulatory visits with asthma ICD9 code as primary reason for visit	SADR	Routine	9	8.0	
4	% patients with persistent asthma who are prescribed long term controllers	Number of patients with persistent asthma who are prescribed long term controllers	Number of patients with persistent asthma	CHCS/ADS w/pharmacy data or chart audit	Special Study	9	8.5	Need to add severity as extra digit to diagnostic code
5	% asthmatics with prescription for beta-2 agonist inhaler for exacerbations as needed	Number of patients with asthma with filled beta-2 agonist prescriptions	Number of patients with asthma	CHCS/ADS w/pharmacy data	Routine	8	7.5	
6	% persistent asthmatics with written action plan documented in past 12 months	Number of patients with persistent asthma with documentation of Written Action Plan	Number of patients with persistent asthma	Chart audit	Special Study	7.5	7.8	Need to add severity as extra digit to diagnostic code
7	% persistent asthmatics referred for asthma education within 6 months of initial diagnosis	Number of newly diagnosed asthma patients with documentation of asthma education program within 6 months of initial visit	Number of patients newly diagnosed with asthma in specified time window (e.g., more than 6 months ago but less than 1 year)	ADS/CHCS or Chart audit	Special Study	7	6.6	
8	% asthmatics who have identified PCP	Number of patients with asthma who have an identified PCP with whom they have had at least one visit in the past year	Number of patients with asthma	CHCS	Routine	8	6.6	
Intermediate Outcomes								
9	% patients hospitalized for asthma with no prior prescription for corticosteroids	Number of hospitalizations for asthma for which patient has no evidence of prior prescription for corticosteroids	Number of hospitalizations with asthma ICD9 code as primary reason for admission	CHCS and pharmacy data	Routine	7	7.0	
10	% persistent asthmatics who report having an action plan	Number of patients with persistent asthma who report that they have an action plan	Number of patients with persistent asthma	Patient Survey	Special Study	7	6.5	Useful to check patient report against documentation in chart
11	% persistent asthmatics who know when to contact PCP about signs and symptoms	Number of patients with asthma who correctly identify signs and symptoms for which they should contact PCP	Number of patients with persistent asthma	Patient Survey	Special Study	7	6.5	
12	% asthmatics who know <ul style="list-style-type: none"> • basic disease information • difference between long term control and quick relief medications 	Number of patients with asthma who correctly answer questions about <ul style="list-style-type: none"> • basic disease information • difference between long term control and quick relief 	Number of patients with asthma	Patient survey	Special Study	6	5.6	
13	% asthma f/u visits for patients with persistent moderate to severe asthma 6 and over with record of home peak flow monitoring	Number of visits in denominator with documentation of home peak flow monitoring	Number of ambulatory visits with asthma ICD9 code as primary reason for visit for patients 6 and over and with severity level of moderate to severe asthma	Chart audit	Special Study	5	5.7	

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Considered but not recommended								
Process Measures								
	% asthma patients with documented asthma severity level	Number of patients with asthma who have severity level documented on at least one asthma visit or admission in past 12 months	Number of patients with asthma (e.g. patients with at least 1 ER visit or at least 1 hospitalization or at least 1 ambulatory visit with asthma ICD9 code)	SADR	Routine	9	7.7	Preferred Indicator 3 to emphasize need for documented severity level at every visit
	% asthmatics with written action plan documented in past 12 months	Number of patients with asthma with documentation of Written Action Plan	Number of patients with asthma	Chart audit	Special Study	8.5	8.0	Preferred Indicator 6, limited to persistent asthmatics only
	% asthma f/u visits with documentation of action plan	Number of visits in denominator with documentation of Written Action Plan	Number of ambulatory visits with asthma ICD9 code as primary reason for visit	Chart audit	Special Study	7	7.2	Preferred Indicator 6, not necessary to document plan at every visit if it is not changing
	Ratio of long term control to quick relief prescriptions filled by patient	Number of doses of long term control medication filled by patient with asthma	Number of doses of quick relief medication filled by patient with asthma	Pharmacy data	Routine	4	4.6	Dose not as important as outcome. Peds studies indicate this is not an effective measure
	Bronchodilator vs anti-inflammatory ratio	Number of cannisters of beta-agonists filled	Sum of cannisters of beta-agonists plus anti-inflammatory	CHCS/ADS	Routine	Revised during Round 3, not scored	May be more useful to look at these things for an individual patient	
	Bronchodilator medication raw numbers	Number of cannisters of beta-agonists filled	* Reported by PCM, by patient with ADS diagnosis asthma	CHCS/ADS	Routine	Revised during Round 3, not scored		
	Anti-inflammatory medication raw numbers	Number of cannisters of anti-inflammatory medications filled	*Reported by PCM, by patient with ADS diagnosis asthma	CHCS/ADS	Routine	Revised during Round 3, not scored		
Clinical Outcomes & Patient Satisfaction								
	Functional status of asthmatics (SF36/SF12)	Sum of functional status scores of patients with asthma	Number of patients with asthma	Chart audit	Special Study	4	5.2	
	Patient self report of sense of control over asthma	Sum of self-reported asthma sense of control scores of patients with asthma	Number of patients with asthma	Chart audit	Special Study	4	4.1	
	Number of breath-limiting or speech-limiting asthma attacks in past 6 months/asthmatic	Total number of breath-limiting or speech-limiting asthma attacks reported in past 6 months by patients with asthma	Number of patients with asthma	Chart audit	Special Study	5	4.5	
	Restricted activity days due to asthma in past month/asthmatic	Total reported restricted activity days due to asthma	Number of patients with asthma	Chart audit	Special Study	7	5.6	
	School days missed in past year/asthmatic under 18	Total days of school reported missed in past 12 months by patients with asthma under 18	Number of patients with asthma under 18	Chart audit	Special Study	6	6.1	
	Work days (or duty days) lost in past year/asthmatic 18 or over	Total days of work reported missed in past 12 months by patients with asthma 18 and over	Number of patients with asthma 18 or over	Chart audit	Special Study	6	5.8	
	Distribution of asthma severity level based on signs and symptoms	Number of patients reporting asthma severity level as: • mild intermittent • mild persistent • moderate persistent • severe persistent	Number of patients with asthma	ADS with adjustment for severity level, or chart audit	Special Study	4	4.3	
	Patient satisfaction with asthma care	Sum of patient satisfaction scores for patients with asthma	Number of patients with asthma	Patient satisfaction survey	Special Study	4	4.9	