

2017 HTN CPG QI Metrics – Generalist

All aims, questions, and measures were gathered from the [2018 Education in Quality Improvement for Pediatric Practice \(EQIPP\) module on Hypertension](#).

Inclusion Criteria: ≥3 years of age, been in the practice’s care for at least 1 year, and have had at least 2 visits in that time

Exclusion Criteria: BMI ≥85th percentile

Document the Measurement of Blood Pressure (BP)		
Aim	Data Collection Question	Measure
90% of patients will have BP documented in the medical record at each well child visit	1. At the most recent well-child visit, was the child’s BP measurement documented in the medical record?	Numerator: Total number of charts with “Yes” selected in Q1
	<ul style="list-style-type: none"> - Yes - No 	Denominator: Total number of charts with “Yes” OR “No” selected in Q1 (total number of charts in chart set)

Interpret the BP Measurement		
Aim	Data Collection Question	Measure
90% of patients will have their BP classified according to the 2017 Clinical Practice Guidelines (CPG)	2. What is the BP classification? (See 2017 CPG Tables 2 and 3)	Numerator: Total number of charts with “Normal” or “Abnormal” selected in Q2
	<ul style="list-style-type: none"> - Normal - Abnormal > 90 percentile for height, age and gender - Unable to classify due to missing height (patient less than 13 years of age) 	Denominator: Total number of charts with “Yes” OR “No” selected in Q1 (total number of charts in chart set)
90% of patients with abnormal BP will have their BP measurement repeated	2a. If Abnormal, was the BP measurement repeated (reaffirming correct cuff size, patient positioning, etc.) keeping in mind the standard for appropriate BP measurement?	Numerator: number of charts with “Yes” selected in Q2a
	<ul style="list-style-type: none"> - Yes - No - NA, due to due to reason for BP to be high (e.g., pain, crying, etc). 	Denominator: Total number of charts with “Abnormal” selected in Q2 MINUS total number of charts with “NA, due to reason for BP to be high” selected in to Q2a

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Discuss Lifestyle Behaviors		
Aim	Data Collection Question	Measure
90% of patients will have lifestyle behaviors discussed with patient and/or guardian	3. Were patient lifestyle behaviors aimed at maintaining a normal BP (e.g., nutrition, physical activity, smoking and/or smoke exposure) discussed with the patient and/or guardian? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q3
		Denominator: Total number of charts with “Yes” OR “No” selected in Q1 (total number of charts in chart set)

Confirm Diagnosis of Hypertension (HTN)		
Aim	Data Collection Question	Measure
90% of patients with abnormal BP will have their BP measurement repeated in the office during 1 or more subsequent visits	4. Was the BP repeated in the office (reaffirming correct cuff size, patient positioning, etc.), during 1 or more subsequent office visits? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q4
		Denominator: Total number of charts with “Abnormal” selected in Q2
90% of patients with repeat measurements will have them done by auscultation	4a. If yes, was BP measured by auscultation? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q4a
		Denominator: Total number of charts with “Yes” selected in Q4
90% of patients with abnormal blood pressure will have Ambulatory BP Monitoring (ABPM) used in accordance with the 2017 CPG	5. Was ABPM (e.g., 24-hour BP monitoring) used in accordance with the 2017 CPG (Table 7) to further assess BP? - Yes - No - No ABPM available - NA - ABPM not recommended	Numerator: Total number of charts with “Yes” selected in Q5
		Denominator: Total number of charts with “Abnormal” selected in Q2 MINUS “No ABPM available” selected in Q5 MINUS “NA - ABPM not recommended selected in Q5
90% of patients with abnormal BP in which no ABPM was used will have reasons documented in the patient’s chart	5a. If no, was the reason documented in the patient chart? - Yes - No	Numerator: Total number of charts with “Yes” selected in 5a
		Denominator: Total number of charts with “No” selected in 5

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90% of patients with abnormal BP will return within the recommended timeframe	6. Did the patient return within the recommended timeframe (See 2017 CPG, Table 7)? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q6 Denominator: Total number of charts with “Abnormal” selected in Q2
90% of patients with abnormal BP that did not return within the recommended timeframe will have a reminder made to the patient/family	6a. If no, was a reminder made (e.g., mailed card or phone call) to the patient/family? - Yes - No - NA - Timeframe has not elapsed	Numerator: Total number of charts with “Yes” selected in 6a Denominator: Total number of charts with “No” selected in Q6 MINUS “NA - Timeframe has not elapsed” selected in Q6a
	7. After follow-up BP measurements, was a diagnosis of HTN or elevated BP confirmed for this child? - Yes - No, the child’s BP is within normal range - No, no BP readings taken	Not Measured

Evaluate for Identifiable Causes and Comorbidity Associated with HTN

Aim		Measure
90% of patients with confirmed abnormal BP will have a targeted patient and family history documented in the medical record	8. In children and adolescents being evaluated for elevated BP or HTN, was a targeted patient and family history (includes but not limited to history of early cardiac events and familial HTN) documented in the medical record? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q8 Denominator: Total number of charts with “Yes” selected in Q7
90% of patients with confirmed abnormal BP will have a targeted physical examination performed looking for secondary causes	9. If the child or adolescent was found to have elevated BP or HTN (Stage 1 or Stage 2), was a targeted physical examination performed looking for secondary causes (See CPG, Table 12)? - Yes - No	Numerator: Total number of charts with “Yes” selected in Q9 Denominator: Total number of charts with “Yes” selected in Q7

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90% of patients with abnormal BP will have BOTH upper and lower extremity BP measurements performed	10. Were upper and lower extremity BP measurements performed? - Upper only - Lower only - Both upper and lower extremities	Numerator: Total number of charts with “Both upper and lower extremities” selected in Q10
		Denominator: Total number of charts with “Yes” selected in Q7
90% of patients with confirmed abnormal BP will have the appropriate diagnostic testing obtained	11. Was appropriate diagnostic testing obtained after confirmation of diagnosis of HTN (see Table 13 of CPG)? - Yes - No - Some test(s) ordered, but not appropriate	Numerator: Total number of charts with “Yes” selected in Q11
		Denominator: Total number of charts with “Yes” selected in Q7

Develop a Treatment Plan		
Aim		Measure
90% of patients with confirmed abnormal BP will have a written management plan provided to the patient/family	12. Was a written management plan (including non-pharmacologic and pharmacologic measures as appropriate) provided to the patient/family? - Yes - No	Numerator: Total number of patients with “Yes” selected in Q12
		Denominator: Total number of charts with “Yes” selected in Q7
	13. If Stage 2 - HTN, was the patient referred to a subspecialist? - Yes - No - NA - not Stage 2 - HTN	Not Measured