

EQIPP: Hypertension - Subspecialist

Pull 20 charts for children ages 6 and older, **with suspected or confirmed hypertension**, that have been seen at least two times within the last year. Try to select charts that represent a range of ages.

NOTE: Try to get a balance of those with **primary hypertension** and secondary hypertension. (**Secondary Hypertension includes but not limited to** : chronic kidney disease, syndromes associated with hypertension (e.g., neurofibromatosis) , structural heart disease, solid organ transplant, or diabetes)

Example:

10 Charts with primary hypertension

10 Charts with secondary conditions

Please note that this document should only be about a subspecialist interaction with the child.

Review all documentation related to the child's care of hypertension within the last 18 months. This review is a retrospective look at the care provided.

Answer the questions based on actual documentation, not on memory or inference. This data collection activity applies to all Subspecialists.



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Document the Measurement of Blood Pressure

Aim	Data Collection Question	Measure	Goal
90% of patients diagnosed with hypertension will have diagnosis documented and confirmed.	<p>1. Was a diagnosis of hypertension documented and confirmed?</p> <p>a. Blood pressure measurement documented <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>b. Method of blood pressure measurement documented <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>c. Site of blood pressure measurement documented <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>d. Blood pressure measurement repeated twice and averaged <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA, due to reason for high blood pressure (e.g. pain, crying, etc.)</p> <p>e. If yes to 1d, Was blood pressure measurement repeated once by auscultation?</p>	<p>Name: % of patients with diagnosis of hypertension documented and confirmed</p> <p>Source: Questions 1a – 1g</p> <p>Numerator (x): Total number of charts with “Yes” or “NA” selected in questions 1a – 1g</p> <p>Denominator (y): Total number of charts in chart set</p>	90%

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	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> NA, blood pressure not elevated</p> <p>f. Blood pressure classification documented</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>g. Follow up blood pressure readings scheduled or arranged, if average is \geq 90th percentile</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><input type="checkbox"/> NA, \geq 90th percentile</p> <p><input type="checkbox"/> NA, immediate action indicated</p>		
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Interpret the Blood Pressure Measurement

Aim	Data Collection Question	Measure	Goal
90% of patients will have their blood pressure classified according to the 2017 Clinical Practice Guidelines.	<p>2. What is the blood pressure classification? (See 2017 <i>Clinical Practice Guidelines</i>)</p> <p><input type="checkbox"/> Normal</p> <p><input type="checkbox"/> Elevated</p> <p><input type="checkbox"/> Stage 1 - Hypertension</p> <p><input type="checkbox"/> Stage 2 - Hypertension</p> <p><input type="checkbox"/> Unable to classify due to missing height (patient less than 13 years of age)</p>	<p>Name: % of patients with Blood Pressure classified</p> <p>Source: Question 2</p> <p>Numerator (x): Total number of charts with "Normal" OR "Elevated" OR "Stage 1 – Hypertension" OR "Stage 2 – Hypertension" selected in Q2</p> <p>Denominator (y): Total number of charts in chart set</p>	90%

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UNABLE TO CLASSIFY DUE TO MISSING HEIGHT: DATA COLLECTION ENDS HERE

Confirm Diagnosis of Hypertension

Aim	Data Collection Question	Measure	Goal
90% of patients will have ABPM used in accordance with the 2017 Clinical Practice Guidelines to further assess BP.	<p>3. Was ambulatory blood pressure monitoring (ex. 24-hour blood pressure monitoring) used in accordance with the 2017 Clinical Practice Guidelines (Table 7) to further assess blood pressure?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No, no ABPM available <input type="checkbox"/> NA, ABPM not recommended</p>	<p>Name: % of patients with ABPM used in accordance with the guidelines</p> <p>Source: Question 3</p> <p>Numerator (x): Total number of charts with “Yes” selected in Q3</p> <p>Denominator (y): Total number of charts in chart set MINUS “No, no ABPM available” MINUS “NA, ABPM not recommended”</p>	90%

Evaluate for Identifiable Causes and Comorbidity Associated Hypertension

Aim	Data Collection Question	Measure	Goal
90% of patients will have identifiable causes and comorbidity associated with hypertension documented in the medical record.	<p>4. Were the following documented in the medical record?</p> <p>a. Targeted patient and family history <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p> <p>b. Perinatal History <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA</p>	<p>Name: % of patients with identifiable causes and comorbidity associated with hypertension documented in the medical record</p> <p>Source: Question 4</p> <p>Numerator (x): Total number of charts with “Yes OR NA” selected in Q4a – Q4f</p> <p>Denominator (y): Total number of charts in chart set</p>	90%



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	<p>c. Sleep history <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>d. Use of medications affecting blood pressure <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>e. Complete physical examination <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>f. Upper and Lower blood pressure measurements (on at least one occasion) – in accordance to the guideline (Table 7) <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
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Discuss Lifestyle Modifications

Aim	Data Collection Question	Measure	Goal
90% of patients will have a documented dietary plan.	<p>5. Was there a documented dietary plan (eg. low salt, weight reduction, if appropriate, etc) for the patient?</p> <p><input type="checkbox"/> Yes, seen by or referred to nutritionist</p> <p><input type="checkbox"/> Yes, performed counseling and provided plan</p> <p><input type="checkbox"/> No</p>	<p>Name: % of patients with a documented dietary plan</p> <p>Source: Question 5</p> <p>Numerator (x): Total number of charts with "Yes" selected in Q5</p> <p>Denominator (y): Total number of charts in chart set</p>	90%

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90% of patients will have additional lifestyle behaviors (aimed at maintaining a normal blood pressure measurement) discussed with the patient or guardian.	<p>6. Were additional lifestyle behaviors (aimed at maintaining a normal blood pressure measurement such as physical activity, screen time, caffeine use and tobacco use) discussed with the patient and/or guardian and documented in the patients chart.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of patients with additional lifestyle behaviors discussed with the patient and/or guardian</p> <p>Source: Question 6</p> <p>Numerator (x): Total number of charts with "Yes" selected in Q6</p> <p>Denominator (y): Total number of charts in chart set</p>	90%
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(NORMAL AND ELEVATED CHARTS: DATA COLLECTION ENDS HERE)

Develop a Treatment Plan

Aim	Data Collection Question	Measure	Goal
	<p>7. What is the cause of hypertension?</p> <p><input type="checkbox"/> Primary <input type="checkbox"/> Secondary</p>	Not measured	90%
90% of patients with Stage 1 or Stage 2 Hypertension will have a treatment plan (written, electronic or other format) provided to the patient/family.	<p>8. Was a treatment plan (written, electronic or other format) provided to the patient/family?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of patients with Stage 1 or Stage 2 Hypertension in which a treatment plan was provided to the patient/family</p> <p>Source: Questions 2 and 8</p> <p>Numerator (x): Total number of charts with "Yes" selected in Q8</p> <p>Denominator (y): Total number of charts with "Stage 1" or "Stage 2" selected in Q2</p>	90%

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	<p>9. Was this patient treated pharmacologically?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	Not Measured	90%
90% of patients with primary hypertension will have lifestyle modifications made prior to pharmacologic treatment.	<p>If yes to question 9,</p> <p>a. Were lifestyle modifications made prior to initiating pharmacologic treatment?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of treated patients with primary hypertension in which lifestyle modifications were made prior to pharmacologic treatment</p> <p>Source: Questions 7 and 9a</p> <p>Numerator (x): Total number of charts with "Primary" selected in Q7 AND "Yes" selected in Q9 AND "Yes" selected in Q9a</p> <p>Denominator (y): Total number of charts with "Primary" selected in Q7 AND "Yes" selected in Q9</p>	90%
90% of treated patients will have an ECHO performed at the time of consideration of pharmacologic treatment.	<p>b. Was an ECHO performed at time of consideration of pharmacologic treatment?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of treated patients in which an ECHO performed at the time of consideration of pharmacologic treatment</p> <p>Source: Questions 9 and 9b</p> <p>Numerator (x): Total number of charts with "Yes" selected in Q9 AND "Yes" selected in Q9b</p>	90%

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<p>90% of treated patients (on ACE inhibitors or ARB) with primary hypertension will have associated risks regarding pregnancy discussed.</p> <p>90% of treated patients (ACE inhibitors, ARB, diuretics) with primary hypertension will have electrolytes and kidney function checked for adverse effects after initiation of therapy.</p>	<p>c. For girls of child-bearing age on ACE inhibitors or ARB: Were the associated risks regarding pregnancy discussed?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA due to gender, age, or patient not on this medication</p> <p>d. For patients on ACE inhibitors, ARB, diuretics: Were electrolytes and kidney function checked within 3 months for adverse effects after initiation of therapy?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA, patient not on any of these medications</p>	<p>Denominator (y): Total number of charts with “Yes” selected in Q9</p> <p>Name: % of treated patients with the associated risks regarding pregnancy discussed</p> <p>Source: Questions 9 and 9c</p> <p>Numerator (x): Total number of charts with “Yes” selected in Q9 AND “Yes” selected in Q9c</p> <p>Denominator (y): Total number of charts with “Yes” selected in Q9 MINUS “NA due to gender, age, or patient not on this medication” selected in Q9c</p> <p>Name: % of treated patients with electrolytes and kidney function checked for adverse effects after initiation of therapy</p> <p>Source: Questions 9 and 9d</p> <p>Numerator (x): Total number of charts with “Yes” selected in Q9 AND “Yes” selected in Q9d</p> <p>Denominator (y): Total number of charts with “Yes” selected in Q9 MINUS “NA patient not on any of these medications” selected in Q9d</p>	<p>90%</p> <p>90%</p>
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90% of patients with Stage 1 or Stage 2 hypertension will have follow up blood pressure monitoring arranged.	<p>10. Was follow up blood pressure monitoring arranged?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of patients with follow up blood pressure monitoring arranged</p> <p>Source: Questions 2 and 10</p> <p>Numerator (x): Total number of charts with “Yes” selected in Q10</p> <p>Denominator (y): Total number of charts with “Stage 1” or “Stage 2” selected in Q2</p>	90%
90% of patients with Stage 1 or Stage 2 hypertension will have communication with the PCP regarding the treatment plan.	<p>11. Was there communication with the PCP regarding the <u>treatment plan (target blood pressure, diagnosis, medication and follow up)?</u></p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Name: % of patients with communication with the PCP regarding treatment plan</p> <p>Source: Questions 2 and 11</p> <p>Numerator (x): Total number of charts with “Yes” selected in Q11</p> <p>Denominator (y): Total number of charts with “Stage 1” or “Stage 2” selected in Q2</p>	90%