

## Blood Pressure

Year 1	Year 2	Core Clinical/Year 3+
<p><u>Do</u></p> <ul style="list-style-type: none"> <li>• Patient at rest for 5 minutes</li> <li>• Arm at heart level</li> <li>• Correct size cuff- bladder encircles 80% of arm</li> <li>• Center of cuff aligns with brachial artery</li> <li>• Cuff wrapped snugly on bare arm with lower edge 2-3 cm above antecubital fossa</li> <li>• Palpate radial artery, inflate cuff to 70 mmHg, then increase in 10 mmHg increments to 30 mmHg above point where radial pulse disappears. Deflate slowly until pulse returns; this is the approximate systolic pressure.</li> <li>• Auscultate the Korotkoff sounds</li> </ul> <p>-place bell lightly in antecubital fossa            -inflate BP to 20-30mmHg above SBP as determined by palpation            -deflate cuff at rate 2mmHg/second while auscultating            -first faint tapping (Phase I Korotkoff) = SBP;            Disappearance of sound (Phase V Korotkoff)=DBP</p> <p><u>Know</u></p> <p>-Korotkoff sounds are lower pitch, better heard by bell            -palpation of radial artery to estimate systolic pressure helps prevent underestimation of SBP if an auscultatory gap is present.</p>	<p><u>Do</u></p> <ul style="list-style-type: none"> <li>• Measure postural BP and pulse in patients with a history suggestive of volume depletion or syncope</li> <li>-Measure BP and pulse in supine position</li> <li>-Slowly have patient rise and stand (lie them down promptly if symptoms of lightheadedness occur)</li> <li>-Measure BP and pulse after 1 minute of standing</li> </ul> <p><u>Know</u></p> <ul style="list-style-type: none"> <li>• Normally when a person stands fluid shifts to lower extremities causing a compensatory rise in pulse by up to 10 bpm with BP dropping slightly</li> <li>• Positive postural vital signs are defined as symptoms of lightheadedness and/or a drop in SBP of 20 mmHg with standing</li> <li>• Know variations in BP cuff sizes</li> <li>• A lack of rise in pulse in a patient with an orthostatic drop in pressure is a clue that the cause is neurologic or related to medications (eg. alpha-blockers)</li> </ul>	

## Pulse

Year 1	Year 2	Core Clinical/Year 3+
<p><u>Do</u> Palpate the radial pulse at the wrist</p> <ul style="list-style-type: none"> <li>Count the number of beats in 15 seconds and multiply by 4</li> <li>Note the rhythm of the pulse: regular, irregular, regularly irregular, irregularly irregular</li> </ul> <p><u>Know</u> -Korotkoff sounds are lower pitch, better heard by bell -Palpation of radial artery to estimate systolic pressure helps prevent underestimation of SBP if an auscultatory gap is present.</p>	<p><u>Know</u> Normal adult pulse is 60-80bpm</p> <ul style="list-style-type: none"> <li>Bradycardia &lt;60bpm</li> <li>Tachycardia &gt;100bpm</li> </ul> <p>- Sinus arrhythmia is a normal finding in adults with inhalation the pulse rate increases and with exhalation pulse rate decreases - Atrial fibrillation is the most common sustained arrhythmia and it causes an irregularly irregular rhythm. - Palpation will frequently underestimate the ventricular rhythm and auscultation at the cardiac apex is needed to accurately measure the pulse rate.</p>	

## Respirations

Year 1	Year 2	Core Clinical/Year 3+
<p><u>Do</u> Observe the patients breathing for a minute and count respirations</p>	<p><u>Know</u> Normal adult respiration rate is 8-20 breaths/minute</p> <ul style="list-style-type: none"> <li>Bradypnea &lt;8 bpm</li> <li>Tachypnea &gt;20 bpm</li> <li>Apnea = respiratory pauses of <math>\geq 20</math> bpm</li> </ul>	

## Temperature

Year 1	Year 2	Core Clinical/Year 3+
<p><u>Do</u> Measure temperature by oral, tympanic or temporal thermometer</p>	<p><u>Know</u> Normal adult temperature varies from 35.8°C-37.3°C</p> <ul style="list-style-type: none"> <li>Fever: oral temperature &gt;37.9</li> <li>Hypothermia: core body temperature confirmed rectally &lt;35.0°C</li> </ul>	

## Height/Weight

Year 1	Year 2
<p>Know : Importance of checking ht. and weight</p>	<p><u>Know</u> Obesity is defined as BMI&gt;30 (kg/(ht in meters)<sup>2</sup>)</p>