

Vitals

- Vital Signs
 - ◆ Skin
 - ◆ Respirations/Breathing
 - ◆ Pulse
 - ◆ Pulse Oximetry
 - ◆ Blood Pressure
 - ◆ Eyes (Pupillary response)
- Skin
 - ◆ Skin color
 - Pale
 - White
 - Ashen
 - Gray
 - Cyanotic
 - Flushed
 - Jaundiced
 - ◆ Temperature
 - Hot
 - Cool
 - Cold
 - Clammy
 - ◆ Moisture
 - Dry skin is normal.
 - Skin that is wet, moist, or excessively dry and hot suggests a problem
 - ◆ Capillary refill
 - When squeezed, the nail bed should restore to its normal pink color in <2 sec.
 - Not reliable in Adult patients
- Respirations/Breathing
 - ◆ Respiratory rate
 - ◆ Clear and equal lung sounds
 - Mid-Clavicular Line
 - Mid Axillary Line
 - Posterior
 - Look For
 - Normal
 - Snoring
 - Gurgling
 - Crowing
 - Stridor
 - Crackles
 - Rales
 - Rhonchi
 - Wheezing
 - ◆ Rhythm
 - Regular
 - Irregular
 - ◆ Quality/character of breathing
 - Normal breathing is silent.
 - Is it:
 - Normal
 - Deep
 - Shallow
 - Labored
 - Noisy
 - ◆ Depth of breathing
 - Tidal Volume
 - Amount of air being exchanged
 - ◆ Normal breathing is an effortless process that does not affect speech, posture, or positioning. Look for
 - Nasal flaring
 - Seesaw breathing
 - Tripod position
 - Sniffing position
 - Unusual sounds
 - Altered Mental Status
 - Skin/Pulse changes

- Pulse
 - ◆ Rate
 - ◆ Quality
 - Full
 - Weak/Thready
 - Weak and difficult to feel
 - Bounding
 - Stronger than normal pulse
 - ◆ Pulse rhythm
 - Regular
 - Irregular (pulse that does not maintain a constant rate)
 - Regular Irregular
 - Irregular Irregular
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- Pulse Oximetry
 - ◆ Measures the oxygen saturation of Hemoglobin in the capillary beds
 - ◆ Assess and treat the Patient -not their pulse oximetry value.
 - ◆ Results:
 - 96–100% = normal
 - 91–95% = hypoxia
 - 86–90% = significant hypoxia
 - < 85% = severe hypoxia
- Blood Pressure
 - ◆ Systolic
 - During ventricular contraction
 - ◆ Diastolic
 - During ventricular relaxation
 - ◆ Auscultatory Gap
 - Interval of pressure where pulse sounds fade away and reappear at a lower pressure
 - ◆ Use other arm
 - If ports, central lines, mastectomy, and/or injury to the arm
 - ◆ To "take" BP by auscultation
 - Apply the cuff snugly, about 1" above the antecubital space.
 - Support the exposed arm at the level of the heart.
 - Palpate the brachial artery and place the stethoscope bell over it
 - Inflate to 30 mm Hg above the point at which you stop hearing pulse sounds
 - Protocol may allow inflation to pre-determined pressure of 160-180 mmHg
 - Slowly release pressure and note the systolic and diastolic pressures as pressure reduces
 - ◆ To "take" BP by palpation
 - Locate radial pulse
 - Inflate to above point pulse goes away
 - Deflate slowly
 - Systolic Pressure is when the pulse returns
 - Report as "systolic/P"
 - Typically ~10 mmHg lower than via auscultation.

- Eyes (Pupillary response)
 - ◆ The pupils are normally round and of approximately equal size.
 - ◆ In the absence of any light, the pupils will become fully relaxed and dilated.
 - ◆ To Check Pupils
 - Have the patient look at a distant object
 - Look at size, shape and symmetry of pupils.
 - Shine a light into each eye and observe constriction of pupil.
 - Flash a light on one pupil and watch it contract briskly.
 - Flash the light again and watch the opposite pupil constrict
 - Consensual reflex
 - Repeat this procedure on the opposite eye.
 - ◆ PEARRL is a useful assessment guide
 - Pupils
 - Equal
 - And
 - Round
 - Regular in size
 - React to Light
 - ◆ For proper assessment, move light in then out
 - DO NOT hold in place as pupil will not change.