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## Inadequate Breathing Responsive patient If breathing is inadequate, ventilate with 100% oxygen. If respirations are adequate but faster than 24/minute, give high-concentration oxygen

















# Supplemental Oxygen Safety with O2 Inspect before using Use non-sparking wrenches Store and maintain cylinders properly Do not drop cylinders or leave standing unsecured Do not smoke or use near open flame











AN ORAL AIRWAY CAN HELP PREVENT THE TONGUE FROM OBSTRUCTING THE AIRWAY OF AN UNRESPONSIVE PATIENT.





## OROPHARYNGEAL AIRWAYS (OPA)

### CONTRAINDICATIONS:

- CONSCIOUS OR SEMI-CONSCIOUS
- GAG REFLEX
- CLENCHED TEETH
- ORAL TRAUMA

### OROPHARYNGEAL AIRWAYS (OPA) • MEASURE OPA FROM PATIENT'S EARLOBE TO THE CORNER OF THE MOUTH. • OPEN THE PATIENT'S MOUTH, USE THE CROSS-FINGER TECHNIQUE TO OPEN THE PATIENT'S MOUTH.



- INSERT AIRWAY ALONG THE HARD PALATE UNTIL YOU
   REACH THE SOFT PALATE, THEN ROTATE 180
- YOU CAN ALSO INSERT AN ORAL AIRWAY RIGHTSIDE UP, IF YOU USE A TONGUE DEPRESSOR TO PRESS THE TONGUE DOWN AND FORWARD.
- IF ADJUNCT SEEMS TOO LONG OR SHORT, REMOVE IT AND SELECT A BETTER SIZE



## NASOPHARYNGEAL AIRWAYS O (NPA)

(NPA) KEEPS THE TONGUE OUT OF THE BACK OF

THE THROAT, THEREBY KEEPING THE AIRWAY OPEN. AN NPA MAY BE USED ON A CONSCIOUS, RESPONSIVE PATIENT *OR* AN UNCONSCIOUS PATIENT. UNLIKE AN ORAL AIRWAY, THE NPA DOES NOT CAUSE THE PATIENT TO GAG.



### NASOPHARYNGEAL AIRWAYS (OPA) CONTRAINDICATIONS: • INFANTS LESS 12 MONTHS • HEAD INJURY WHEN CLEAR FLUIDS DRAINS FROM NOSE OR EARS

• HEAD INJURY WITH SUSPECTED FACIAL FRACTURES

## OROPHARYNGEAL AIRWAYS (OPA)

- CHOOSE THE CORRECT SIZE
- MEASURE NPA FROM PATIENT'S EARLOBE TO THE TIP OF THE
   NOSE TAKE NOT THE NPA IS NOT LARGER THAN THE NOSTRIL.

























<b>Blood</b> Pr	essure	
Normal Systo	lic Blood Pressure	2
• Infant	80 - 100	
Child	80 – 110	
Adult	90 – 140	
	Normal Diasto	olic Blood Pressure
	<ul> <li>Infant</li> </ul>	60 - 80
	Child	65 - 80
	Adult	80 or less

























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## Pulse Oximeter is an additional tool used to measure the percentage of oxygen saturation in the blood. The reading appears as a percentage of hemoglobin saturated with oxygen.











































## CONFIDENTIALITY AND PRIVACY

### • HIPAA

- PRIVACY PROTECTION FOR PROTECTED HEALTH INFORMATION (PHI)
- WRITTEN CONSENT NECESSARY FOR RELEASE OF INFORMATION

## CONSENT

### LIFEGUARD, TO OBTAIN CONSENT YOU MUST-

- IDENTIFY YOURSELF TO THE PATIENT.
- STATE YOUR LEVEL OF TRAINING.
- ASK IF YOU MAY HELP.
- EXPLAIN OBSERVATIONS.
- EXPLAIN WHAT IS PLANNED.





















### FUNCTIONS OF THE MUSCULOSKELETAL SYSTEM • SUPPORTS THE BODY

- PROTECTS INTERNAL ORGANS
- ALLOWS MOVEMENT
- STORES MINERALS
- PRODUCES BLOOD CELLS
- PRODUCES HEAT






















































































# Lifeguards Should: Position themselves appropriately. Speak in a normal voice. Use your patient's name if possible Lifeguards do not need to go in order so follow along to ensure they determine all the necessary information







#### Medications

Prescription & Non-prescription

Current

- Recent
- Birth control pills
- If relevant to the emergency ask patient if they have the medication with them

Pertinent past history should include medical, surgical, and trauma factors.



























































































### INTERNAL BLEEDING

#### SIGNS AND SYMPTOMS

- DISCOLORATION OF THE SKIN AROUND THE AREA,
- NAUSEA, VOMITING OR COUGHING UP BLOOD
- DISCOLORED, PAINFUL, TENDER, SWOLLEN OR FIRM TISSUE
- TENDERNESS AND GUARDING (PROTECTING THE AREA)
- ANXIETY OR RESTLESSNESS
- RAPID, WEAK PULSE; RAPID BREATHING
- COOL OR MOIST, PALE, ASHEN OR BLUISH SKIN
- DECLINING LEVEL OF CONSCIOUSNESS (LOC)

0

DROP IN BLOOD PRESSURE















































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#### SIGNS OF IMMINENT 0 0 IMMINENT BIRTH WITH CROWNING BIRTH APPLY LIGHT PRESSURE ON TOP OF THE BABY'S HEAD INTENSE CONTRACTIONS 2 MINUTES APART OR LESS, LASTING 60 ENCOURAGE WOMAN TO PANT AND STOP PUSHING TO 90 SECONDS PUNCTURE THE AMNIOTIC SAC IF NECESSARY VERY TIGHT AND HARD ABDOMEN CHECK FOR UMBILICAL CORD LOOPING; GENTLY SLIP IT OVER THE HEAD OR SHOULDERS • REPORT OF FEELING INFANT'S HEAD MOVING DOWN BIRTH CANAL; FEELING OF THE URGE TO DEFECATE GUIDE ONE SHOULDER OUT AT A TIME; DO NOT PULL USE A CLEAN TOWEL TO RECEIVE OR HOLD THE BABY CROWNING PLACE BABY ON ITS SIDE BETWEEN MOTHER AND YOU • MOTHER WITH A STRONG URGE TO PUSH NOTE THE TIME OF BIRTH





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			0
U	Pulse (Count the heart rate for 30 second possible, use a stethoscope. If not, mean the pulse where the umbilical cord meen abdomen or at the brachial artery.)	onds. If Isure ts the	
	No pulse	0	
	Pulse rate less than 100 beats per minute	1	
	Pulse rate more than 100 beats per minute	2	0
	0 °	0	

Grimace (reflex irritability) (Gently flick the soles of the newborn's feet, or observe during suctioning.)			
No activity or reflex	0		
Some facial grimace	1		
Grimace and cough, sneeze or c	ry 2		

Activity (Observe movement/reflexes of extremities or the degree of flexion of the	the	1
extremities and the resistance to straightening them.)		
Limp, with no movement of extremities	0	
Some flexion, without active movement	1	
Actively moving around	2	C





























## Emergency Care for Limb Presentation Place mother in head-down position with hips elevated. Care is similar to prolapsed cord.
























Opioid Overdose	2020 Two new opioid-associated emergency algorithms have been added for lav rescuers and
Pol de elle chicarde personale	trained rescuers.
Cardiac Arrest in Pregnancy	A new cardiac arrest in pregnancy algorithm has been added to address these special cases.
Real-Time Audiovisual Feedback	Use audiovisual feedback devices during CPR for real-time optimization of CPR performance.
Systems of Care	<ul> <li>Mobile phone technology can be used for emergency dispatch systems to alert bystanders to nearby events that may require CPR or AED.</li> <li>Organizations that treat patients with cardiac arrest should collect processes of-care data and outcomes.</li> </ul>
Debriefing for Rescuers	Consider debriefing and follow-up for emotional support for lay rescuers, EMS providers, and hospital-based healthcare workers after cardiac arrest events.
Infant Compressions	Single rescuers should compress the sterrum with 2 fingers or 2 thumbs placed just below the nipple line.     If the rescuer is unable to achieve appropriate depth for infants with 2 fingers or 2 thumbs, use the heel of 1 hand.
Abbreviations: AED, auto emergency medical servic support: PBLS, pediatric b	nated external defibrillator; BLS, basic life support; CPR, cardiopulmonary resuscitation; EMS, es; IHCA, In-hospital cardiac arrest; OHCA, out-of-hospital cardiac arrest; PALS, pediatric advanced acic life support.

∕∘ 2020 BLS UPDATE					
Summary of High-Quality CPR Components for BLS Providers					
Component	Adults and adolescents	Children (age 1 year to puberty)	Infants (age less than 1 year, excluding newborns)		
Verifying scene safety	Make sure the environment is safe for rescuers and victim				
Recognizing cardiac arrest	Check for responsiveness No breathing or only gasping (ie, no normal breathing) No definite pusie feit within 10 seconds (Breathing and pulse check can be performed simultaneously in less than 10 seconds)				
Activating emergency response system	If a mobile device is available, phone emergency services (9-1-1)				
	If you are alone with no mobile phone, leave the victim to activate the emergency response system and get the AED before beginning CPR Otherwise, send someone and begin CPR immediately; use the AED as soon as it is available	Witnessed collapse Follow steps for adults and addiscents on the left: Unwitnessed collapse fore 2 minutes of CPR Leave the victim to account of the collapse steps Leave the victim to account of the collapse steps Leave the victim to account of the collapse steps Return to the victim of the collapse steps use the AED as soon as it is available			
Compression-ventilation ratio without advanced airway	1 or 2 rescuers 30.2	1 rescuer 30:2 2 or more rescuers 15:2			
Compression-ventilation ratio with advanced airway	Continuous compressions at a rate of 100-120/min Give 1 breath every	Continuous compressions at a rate of 100-120/min Give 1 breath every 2-3 seconds (20-30 breaths/min)			





Compression rate	100-120/min			
Compression depth	At least 2 inches (5 cm)*	At least one third AP diameter of chest Approximately 2 inches (5 cm)	At least one third AP diameter of chest Approximately 1% inches (4 or	
Hand placement	2 hands on the lower half of the breastbone (sternum)	2 hands or 1 hand (optional for very small ohligon the lower half of the breastbone (sternum)	T rescuer 2 fingers or 2 thumbs in the center of the chest, just below the nipple line 2 or more rescuers 2 thumb-encircling hands i the center of the chest, just below the nipple line if the rescuer is unable to achieve the recommended depth, it may be reasonable to use the heel of one hand	
Chestrecoil	Allow complete recoil of chest after each compression; do not lean on the chest after each compression			
Minimizing interruptions	Limit interruptions in chest compressions to less than 10 seconds with a CCF goal of 80%			







