Poolside First Aid

Preventing Further Injury

- Provide appropriate first aid treatment after removing the patron from immediate danger
- Remain calm and in control of the situation
- Call for assistance and activate the EMS
- Try to identify the victim and determine what went wrong
- Deal with friends or family of the injured party
- Provide crowd control
- Conduct both a primary and secondary survey of the patron's injuries
- Continue to monitor vital signs

Preventing Further Injury Treating for Shock

- Shock is a depression of vital bodily functions including reduced blood flow and inadequate oxygen supply that often occurs:
 - After a grave injury or trauma
 - Loss of blood or bodily fluids
 - A period of time without oxygen
 - Extreme stress
- Shock can be life threatening if not treated

Preventing Further Injury

Treating for Shock

- Signs of shock include:
 - Weakness
 - Pale, clammy skin
 - Dilated pupils
 - Faint but rapid pulse
 - Irregular breathing
 - Vomiting
 - Restlessness or agitation
 - Loss of consciousness
 - Sensitivity to changes in ambient temperature
 - Lowering of body core temperature

Preventing Further Injury

Treating for Shock

- Have the victim lie down
- Raise the victim's legs unless spinal injury is suspected
- Raise the victim's head or upper body if experiencing breathing difficulties
- If the victim is already unconscious, but breathing, place him on his side
- Maintain an open airway
- Cover him with a blanket to prevent heat loss, or place a blanket under him if he's laying on a hot pool deck
- Although the victim may be complaining of thirst, do not give fluids including water, unless arrival of the EMTs will be delayed for an extended amount of time

Rescue Breathing & CPR

- After making a water rescue, it may be necessary to perform rescue breathing and CPR
- Rescue breathing is given to someone who has stopped breathing
- CPR, or cardiopulmonary resuscitation, combines rescue breathing with external cardiac compressions to provide a mechanical pumping of the heart muscle, to circulate blood and to provide oxygen to the brain
- CPR is used to help save a life when a victim experiences clinical death, when he has stopped breathing and does not have a pulse

Heimlich Maneuver for Drowning Victims

- Specified by AHA Guidelines (JAMA 1986 and 1992)
- Controversial: Not all lifeguard and CPR training agencies agree that the Heimlich Maneuver should always be performed on drowning victims
- Water in lungs or airway may be blocking attempts to give rescue breaths
- Resistance caused by water in the lungs may force air into the stomach causing the abdomen to distend and the victim to vomit
- Distended abdomen presses on the diaphragm which interferes with lung expansion
- Rescue breathing may push water deeper into lungs causing further complications

Heimlich Maneuver for Drowning Victims

- If the victim is still in shallow water
 - Place the victim in a vertical position
 - Stand behind the victim
 - Perform the Heimlich Maneuver until water stops flowing from the victim's mouth
- If the victim is lying on his back on the ground or deck
 - Turn the victim's head to the side to allow water to drain
 - Straddle the victim
 - Perform the Heimlich Maneuver until water stops flowing from the victim's mouth

Initiating CPR

- Begin CPR if indicated (no pulse and no breathing) unless:
 - You would be putting yourself into a dangerous situation
 - There are signs, including rigor mortis, mutilation or decapitation, or tissue decomposition, that the person has been dead for a long time
 - There are written instructions not to resuscitate because of a terminal or fatal illness

Initiating CPR

- Once begun, do not stop CPR unless:
 - The victim recovers
 - It is unsafe to continue
 - You are too exhausted or otherwise unable to continue
 - You are relieved by trained medical personnel or a physician tells you to stop
- You may need to interrupt CPR for a short period to:
 - Call for help
 - Move a victim to a new or safer location
 - Check to see if you've been successful in restoring breathing and pulse

Initiating CPR

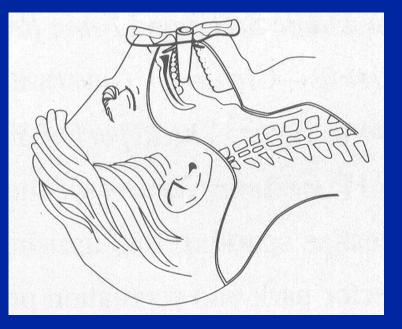
- Check that the environment is safe
- Observe the scene or question witnesses to find out what happened
- Check to see if the person is responsive by shouting "Are you OK?" or by gently shaking the person's shoulder
- If the person does not respond, phone for assistance by dialing 9-1-1
- While supporting the person's head and neck, carefully roll the person as a unit toward you and onto his back
- Put on protective equipment

Universal Precautions

- Take universal precautions to prevent disease transmission, particularly the spread of hepatitis and human immunodeficiency virus (HIV), during CPR
- Use barriers such as goggles, latex gloves and disposable gowns to protect you when there is a possibility that you may come in to contact with a victim's blood, saliva or other bodily fluids
- Remember, all blood and bodily fluids should be considered infectious

Universal Precautions

- Use pocket masks for performing rescue breathing
- Do not make direct mouth-to-mouth contact with a victim



Rescue Breathing

- Open the airway.
- If you see material in the victim's mouth, remove it with your finger using a hooking motion.
- Check for breathing.
- If the person is breathing: keep the airway open, monitor breathing and place the person on his side.
- If the person is not breathing: begin rescue breathing.
- Maintain an open airway.
- Pinch the victim's nose closed.
- Make a seal over the victim's mouth with the protective mask or airway barrier.

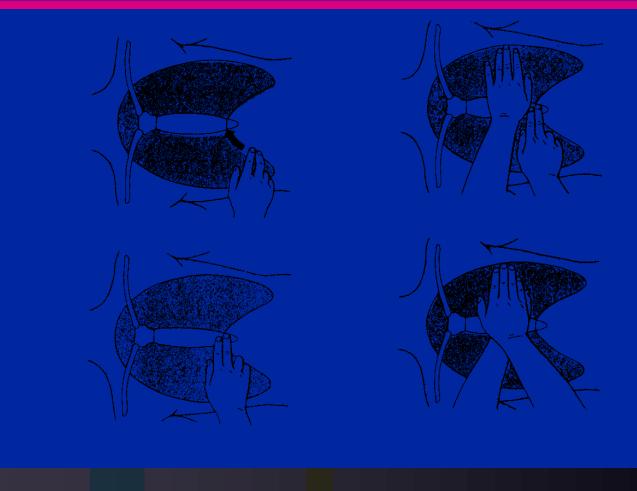
Rescue Breathing

- Give the victim 2 full, slow breaths.
- If the victim's chest does not rise and fall with the breaths, re open the airway, and try again.
- If still not successful at giving the breaths, begin first aid for a choking, unconscious victim.
- Check for a carotid pulse for 5 to 10 seconds
- If the person does not have a pulse and is not breathing: start CPR.
- If the person has a pulse but is not breathing: continue rescue breathing.
- After about 1 minute, check again to see if the person is breathing and has a pulse.

- Open the airway.
- If you see material in the victim's mouth, remove it with your finger.
- Check for breathing.
- If the person is breathing: keep the airway open, monitor breathing and place the person on his side.
- If the person is not breathing: begin rescue breathing.
- Maintain an open airway.
- Pinch the victim's nose closed.
- Make a seal over the victim's mouth with the protective mask.
- Give the victim 2 full, slow breaths.

- If the victim's chest does not rise and fall with the breaths, re open the airway, and try again.
- If still not successful at giving the breaths, begin first aid for a choking, unconscious victim.
- Check for a carotid pulse for 5 to 10 seconds
- If the person has a pulse but is not breathing: continue rescue breathing.
- If the person does not have a pulse and is not breathing: start CPR.
- Find the correct hand position.
- Press down on the sternum 1 and 1/2 to 2 inches to compress the heart between the sternum and spine.

CPR Find Correct Hand Position



- Perform 15 compressions, while counting "one and, two and, three and...15".
- Open the airway and give 2 breaths.
- After 4 compression and breath cycles, stop and check for breaths & pulse.



- If the person is breathing, roll him on his side, keep the airway open and monitor breathing. If the person has a pulse but is not breathing, begin rescue breathing.
- If the person still does not have a pulse and is not breathing, give 2 breaths and continue CPR.
- Continue to check for pulse and breathing every few minutes.

- If a second rescuer is available to assist:
 - Finish the cycle
 - Check for pulse and breathing
 - Start CPR again with one rescuer performing the compressions and one giving the breaths
 - Change to one breath for every 5 compressions

Choking (Unconscious)

- Open the airway.
- If you see material in the victim's mouth, remove it with your finger using a hooking motion.
- Check for breathing.
- If the person is breathing: keep the airway open, monitor breathing and place the person on his side.
- If the person is not breathing: begin rescue breathing.
- Maintain an open airway.
- Pinch the victim's nose closed.
- Make a seal over the victim's mouth with the protective mask or airway barrier.

Choking (Unconscious)

- Give the victim 2 full, slow breaths.
- If the victim's chest does not rise and fall with the breaths, re open the airway, and try again
- If still not successful at giving the breaths, begin first aid for a choking, unconscious victim.
- Climb on top of the victim and straddle their thighs.
- Place the heel of the palm of one hand on the victim's abdomen, and place your other hand on top.
- Using both hands, press forcefully inward and upward on the victim's abdomen.
- Repeat the thrusts 5 to 10 times.

Choking (Unconscious)

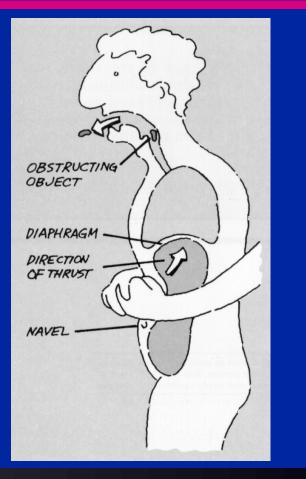
- Open the victim's mouth.
- Place your thumb on the victim's tongue, and lift his jaw with your fingers.
- Use a hooking motion to dislodge and remove any visible object.
- Open the airway and attempt to give 2 breaths.
- Repeat the cycle of abdominal thrusts, finger sweeping, and attempting to ventilate.

Choking (Conscious)

- If able to breathe, stay with the person and encourage them to keep coughing
- Do not interfere with the victim's attempts to clear his airway.
- Assume complete obstruction if:
 - Turning blue
 - Unable to breathe, speak or cough
 - Clutching at their throat
- Ask "Are you choking?"
- Yell for help.

Choking (Conscious)

 Perform the Heimlich maneuver by standing behind the victim and putting both of your arms around the victim's waist.



Choking (Conscious)

- Lower your center of gravity so you don't fall over
- Be ready to support the victim's weight if he should become unconscious.
- Position your fist on the victim's abdomen.
- Press your fist inward and upward into the victim's abdomen.
- Repeat the thrusts.
- If the victim becomes unconscious, help them onto the floor.

CPR for Children Ages 1-8

- Reduce ventilation for to half a breath
- Use a smaller airway mask if necessary
- Reduce chest compression depth 1/3 to 1/2
- Perform chest compressions using the heel of only 1 hand
- Use a ration of 5 compressions to 1 breath
- Count "1 and 2 and 3 and 4 and 5 breathe"
- Increase compression rate to 100 per minute

CPR for Children Ages 1-8

- When performing rescue breathing without compressions, use a 1:3 ratio, and count "1 one thousand, 2 one thousand breathe"
- Perform abdominal thrusts with less force
- Visualize an object causing airway obstruction in finger sweeps

First Aid Bleeding

- Symptoms:
 - Blood
 - Rapid pulse
 - Pain
 - Bruising
- Treatment:
 - Apply direct pressure
 - Elevate bleeding limb above the heart
 - Apply pressure to arterial pressure points

First Aid Heat Stroke

- Symptoms:
 - Hot, red, dry skin
 - Strong, rapid pulse
 - High temperature
 - Life threatening
- Treatment:
 - Quickly cool down body
 - Get the victim out of the heat
 - Immerse in cold water or wrap in wet towels
 - Treat for shock
 - Call 9-1-1

First Aid Heat Exhaustion

- Symptoms:
 - Cool, moist, pale skin
 - Sweating excessively
 - Normal temperature
 - Nausea and vomiting
 - Headache, dizziness
 - Dilated pupils
- Treatment:
 - Have victim lie down in a cool and shady area
 - Stop all activity and rest
 - Replace fluids

First Aid Hypothermia

- Symptoms:
 - Shivering
 - Low temperature, blue lips and skin
 - Confusion
 - Sleepiness
 - Loss of muscle control
 - Slowed pulse and breathing rate
- Treatment:
 - Warm the body gradually
 - Get out of the cold
 - Change into dry clothing
 - Drink warm fluids

First Aid Poisoning

- Symptoms:
 - Nausea, vomiting, and abdominal pain
 - Dilated or constricted pupils
 - Diarrhea
 - Convulsions
 - Breath odor
 - Unconsciousness
 - Presence of poisonous substance
 - Tissue damage or burns



First Aid Poisoning

- Treatment:
 - Call 9-1-1 or the Poison Control Center
 - Dilute poison -- have a conscious victim drink a glass of water
 - Induce vomiting (only upon medical advice) by giving 1 tablespoon (children) or 2 tablespoons (adult) of Syrup of Ipecac, then a glass of water
 - Send container, label, substance or vomit to hospital with the victim

First Aid Convulsions / Seizures (Land)

- Symptoms:
 - Rigid muscles
 - Spasms, flailing, jerky movements
 - Drooling
 - Loss of bladder or bowel control
 - May stop breathing
- Treatment:
 - Protect from further injury
 - Do not try to restrain the victim
 - Do not put anything in the victim's mouth
 - Perform rescue breathing or CPR if necessary

First Aid Seizures (Water)

- Symptoms:
 - May aspirate water and drown due to unprotected airway
 - Rigid muscles
 - Spasms, flailing, jerky movements
 - Drooling
 - Loss of bladder or bowel control
 - May stop breathing

First Aid Seizures (Water)

- Treatment:
 - Use a rescue tube to support victim and keep victim's head above the surface of the water
 - Maintain an open airway
 - Stay away from the pool edges to prevent victim from harming himself
 - After seizure has stopped, remove the victim from the water
 - Place victim on deck and on his side
 - Monitor vital signs
 - Perform rescue breathing if necessary

First Aid Fainting

- Symptoms:
 - Unconsciousness due to reduced blood supply to the brain
 - Dizziness
 - Sudden collapse
 - Pale
 - Sweating and cool skin
 - Tingling sensation
 - Blurred vision

First Aid Fainting

- Treatment:
 - Lay victim down flat on the pool deck
 - Lower victim's head below his heart
 - Loosen tight clothing
 - Do not throw cold water at or on the victim
 - Once conscious, have the victim sip water

First Aid Electrocution

- Symptoms:
 - Tissue burns
 - Smell of burning flesh
 - Ventricular fibrillation
 - Respiratory arrest
- Treatment:
 - Disconnect source of electrical current
 - Separate victim from source of electricity with an object made of a non conducting material
 - Provide rescue breathing and CPR if necessary
 - Treat burns

First Aid Burns (1st Degree)

- Symptoms:
 - Redness
 - Swelling
 - Pain
- Treatment:
 - Submerge burned area in cool water till pain subsides
 - Cover with a dry, clean cloth

First Aid Burns (2nd Degree)

- Symptoms:
 - Redness
 - Swelling
 - Pain
 - Blisters
- Treatment:
 - Submerge in cool water
 - Cover burn area with a moist, clean cloth
 - Treat for shock

First Aid Burns (3rd Degree)

- Symptoms:
 - Red, black, gray or white charred looking skin
 - Swelling
 - Extreme pain away from burn area
 - Blisters
 - Deep tissue damage
- Treatment:
 - Cover burn area with a dry, clean cloth
 - Keep airway open, monitor breathing and pulse
 - Treat for shock
 - Call 9-1-1

First Aid Pool Chemicals on Skin

- Symptoms:
 - Itching
 - Swelling
 - Pain
 - May cause serious burns and tissue damage
- Treatment:
 - Rinse with fresh water for at least 15 minutes
 - Remove contaminated clothing

First Aid Pool Chemicals in Eyes

- Symptoms:
 - Pain
 - Burning sensation
 - Inability to see clearly
 - Eyes tearing
- Treatment:
 - Rinse the eyes with fresh water for at least 15 minutes
 - Patch both eyes
 - Transport lying down to the emergency room

First Aid Pool Chemicals Inhaled

- Symptoms:
 - Coughing, wheezing
 - Respiratory distress
 - May stop breathing
- Treatment:
 - Get in fresh air immediately
 - Provide rescue breathing if necessary

First Aid Pool Chemicals Swallowed

- Symptoms:
 - Nausea, vomiting, and abdominal pain, diarrhea
 - Dilated or constricted pupils
 - Convulsions
 - Breath odor
 - Unconsciousness
 - Presence of poisonous substance
 - Tissue damage or burns
- Treatment:
 - Drink plenty of water (if directed)
 - Do not induce vomiting
 - Treat for poisoning