

Emergency Nursing

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Triage

- the process of assessing patients to determine management priorities
- Hierarchy based on severity
 - Emergent
 - Urgent
 - Nonurgent
- ED triages differs from disaster triage in that patients who are the most critically ill receive the most resources, regardless of potential outcome

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Primary Survey

- A: airway
- B: breathing
- C: circulation
- D: disability
- E: exposure

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Secondary Survey

- Health history
- Head-to-toe assessment
- Diagnostic and lab testing
- Monitoring devices
- Splinting
- Wound care
- Other interventions



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Priority Emergency Measures

- Airway obstruction and establishing an airway and ventilation
- Hemorrhage
- Hypovolemic shock
- Wounds
- Trauma and multiple trauma



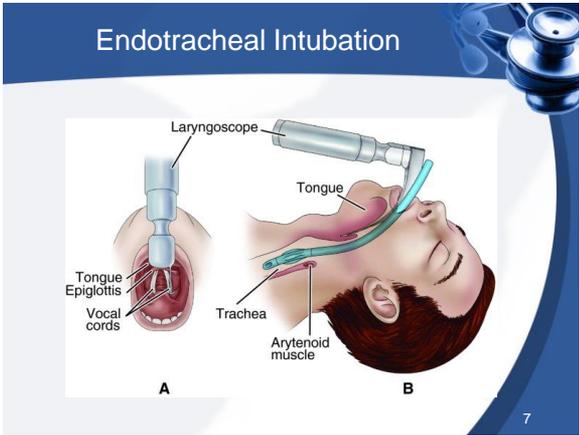
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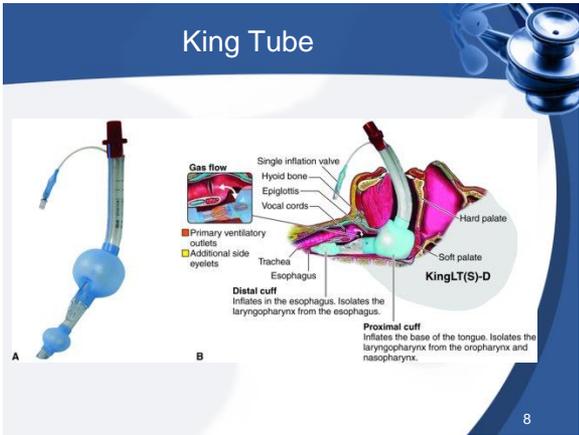
Airway and Ventilation

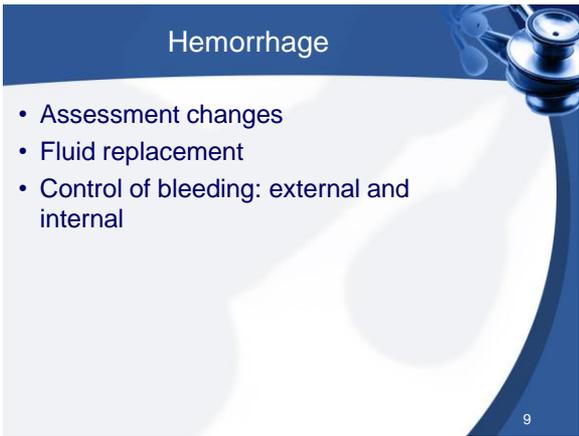
- Partial and complete obstruction
- Oropharyngeal or nasopharyngeal airway insertion
- Endotracheal intubation
- King tube or laryngeal mask
- Cricothyroidotomy
- Ventilation

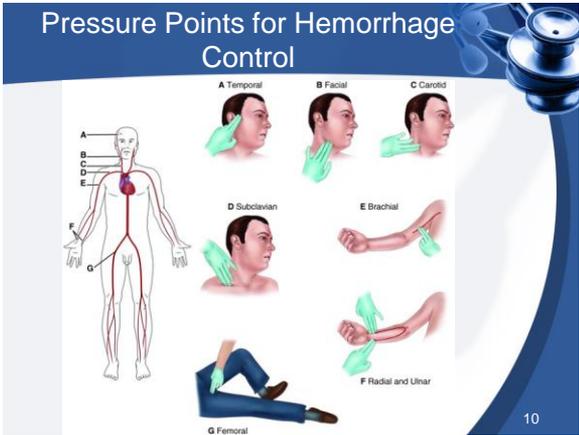


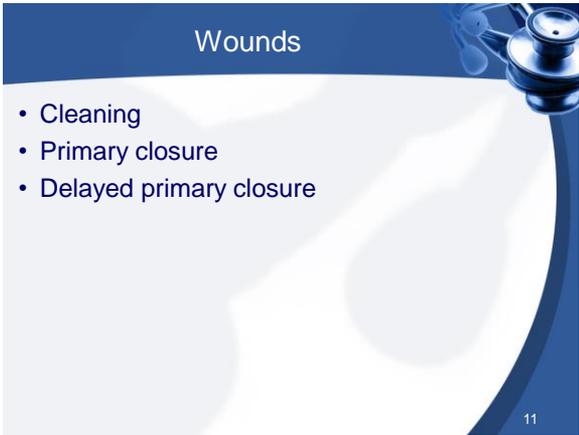
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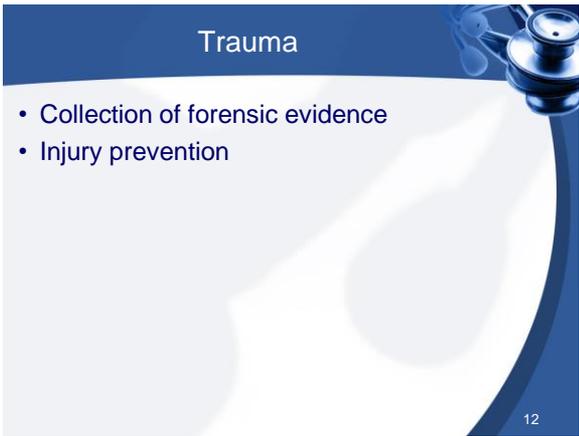












Priorities of Care for the Patient With Multiple Trauma

- Requires a team approach
- Determine extent of injuries and establish priorities of treatment
- Assume cervical spine injury
- Injuries interfering with vital physiologic function have highest priority

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Management of the Patient With Intra-Abdominal Injuries

- Blunt trauma or penetrating injuries
- Abdominal trauma can cause massive life-threatening blood loss into abdominal cavity
- Assessment
 - Obtain history
 - Abdominal assessment and assess other body systems for injuries that frequently accompany abdominal injuries
 - Assess for referred pain which may indicate spleen, liver, or intraperitoneal injury
 - Laboratory studies, CT scan, abdominal ultrasound (FAST), diagnostic peritoneal lavage
 - Stab wound: sinography

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Management of the Patient With Intra-Abdominal Injuries (cont'd)

- Ensure airway, breathing, and circulation
- Immobilize cervical spine
- Continually monitor the patient
- Document all wounds
- If viscera are protruding, cover with sterile, moist saline dressing
- Hold oral fluids
- NG to aspirate stomach contents
- Tetanus and antibiotic prophylaxis
- Rapid transport to surgery if indicated

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Complications of Crush Injuries

- Hypovolemic shock
- Paralysis of body part
- Erythema and blistering
- Damage to body part
- Renal dysfunction

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Environmental Emergencies: Heat Stroke

- A failure of heat-regulating mechanisms
- Types
 - Exertional: occurs in healthy individuals during exertion in extreme heat and humidity
 - Hyperthermia: the result of inadequate heat loss
- Older adults, very young people, ill or debilitated people, and persons taking some medications are at high risk
- Can cause death
- Manifestations: CNS dysfunction, elevated temperature, hot dry skin, anhidrosis, tachypnea, hypotension, and tachycardia

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Management of the Patient With Heat Stroke

- Use ABCs and reduce temperature to 39°C as quickly as possible
- Cooling methods
 - Cool sheets, towels, or sponging with cool water
 - Ice to neck, groin, chest, and axillae
 - Cooling blankets
 - Iced lavage of the stomach or colon
 - Immersion in cold water bath
- Monitor temperature, VS, ECG, CVP, LOC, urine output
- IVs to replace fluid losses

Note: hyperthermia may recur in 3 to 4 hours; avoid hypothermia

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Environmental Emergencies: Frostbite

- Trauma from freezing temperature and actual freezing of fluid in the intracellular and intercellular spaces
- Manifestations: hard, cold, and insensitive to touch, may appear white or mottled, may turn red and painful as rewarmed
- The extent of injury is not always initially known.
- Controlled but rapid rewarming; 37° to 40°C circulating bath for 30- to 40-minute intervals
- Analgesics for pain
- Do not massage or handle; if feet are involved, do not walk

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Environmental Emergencies: Hypothermia

- Internal core temperature is 35°C or less
- Older adults, infants, persons with concurrent illness, homeless people, and trauma victims are at risk
- Alcohol ingestion increases susceptibility
- Hypothermia may be seen with frostbite, and treatment of hypothermia takes precedence
- Physiologic changes in all organ systems
- Monitor continuously

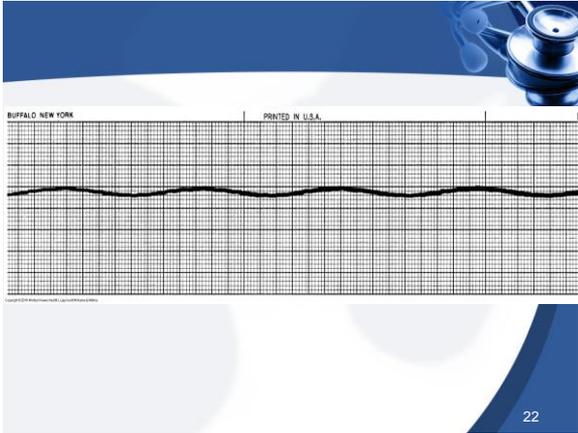
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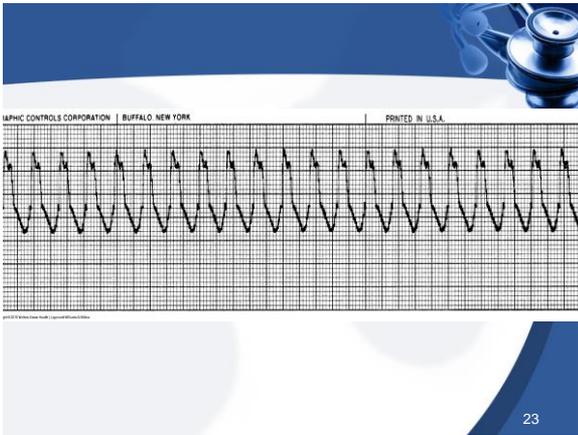
Management of the Patient With Hypothermia

- Use ABCs, remove wet clothing, and rewarm
- Rewarming
 - Active core rewarming
 - Cardiopulmonary bypass, warm fluid administration, warm humidified oxygen, warm peritoneal lavage
 - Passive external rewarming
 - Warm blankets and over the bed heaters

Note: Cold blood returning from the extremities has high levels of lactic acid and can cause potential cardiac dysrhythmias and electrolyte disturbances.

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Management of the Patient With Poisoning

- Poison is any substance that when ingested, inhaled, absorbed, applied to the skin, or produced within the body in relatively small amounts injures the body by its chemical action.
- Treatment goals
 - Remove or inactivate the poison before it is absorbed
 - Provide supportive care in maintaining vital organs systems
 - Administer specific antidotes
 - Implement treatment to hasten the elimination of the poison

Management of the Patient With Ingested Poisons—Assessment

- ABCs
- Monitor VS, LOC, ECG, UO
- Laboratory specimens
- Determine what, when, and how much substance was ingested
- Signs and symptoms of poisoning and tissue damage
- Health history
- Age and weight

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Management of the Patient With Ingested Poisons

- Measures to remove the toxin or decrease its absorption
 - Use of emetics
 - Gastric lavage
 - Activated charcoal
 - Cathartic when appropriate
 - Administration of specific antagonist as early as possible
 - Other measures may include diuresis, dialysis or hemoperfusion
- Corrosive agents such as acids and alkalines cause destruction of tissues by contact. Do not induce vomiting with corrosive agents.

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Management the Patient With Carbon Monoxide Poisoning

- Inhaled carbon monoxide binds to hemoglobin as carboxyhemoglobin. Carboxyhemoglobin does not transport oxygen.
- Manifestations: CNS symptoms predominate
 - Skin color is not a reliable sign, and pulse oximetry is not valid
- Treatment
 - Get to fresh air immediately
 - CPR as necessary
 - Administer oxygen; 100% or oxygen under hyperbaric pressure
- Monitor continuously

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Management of the Patient With Chemical Burns

- Severity of the injury depends on the mechanism of action of the substance, the penetrating strength and concentration, and the amount of skin exposed to the agent.
- Immediately flush the skin with running water from a shower, hose, or faucet.

Note: Lye or white phosphorus should be brushed off the skin dry.

- Protect health care personnel from the substance.
- Determine the substance.
- Some substances may require prolonged flushing or irrigation.
- Follow-up care includes reexamination of the area at 24 hours, 72 hours, and 7 days.



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Management of the Patients With Food Poisoning

- A sudden illness caused by the ingestion of contaminated food or drink
- ABCs and supportive measures

Note: Food poisoning, such as botulism or fish poisoning, may result in respiratory paralysis and death.

- Determination of food poisoning
- Treat fluid and electrolyte imbalances
- Control nausea and vomiting
- Clear liquid diet and progression of diet after nausea and vomiting subside



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Management of the Patient With Substance Abuse

- Acute alcohol intoxication: a multisystem toxin
 - Alcohol poisoning may result in death
 - Maintain airway and observe for CNS depression and hypotension
 - Rule out other potential causes of the behaviors before it is assumed the patient is intoxicated
 - Use a nonjudgmental, calm manner
 - May need sedation if noisy or belligerent
 - Examine for withdrawal delirium, injuries, and evidence of other disorders



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Psychiatric Emergencies

- Overactive patients, violent behavior, underactive, or depressed patients and suicidal patients
- Management
 - Maintain the safety all persons and gain control of the situation
 - Determine if the patient is at risk for injuring him- or herself or others
 - Maintain the person's self-esteem while providing care
 - Determine if the person has a psychiatric history or is currently under care to contact that therapist
- Crisis intervention
- Interventions specific to each of the conditions

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Crisis Intervention: Violence, Abuse, and Neglect

- How the patient is received and treated in the ED is important to his or her psychological well-being.
- Crisis intervention begins as soon as the patient enters the facility; the patient should be seen immediately.
- Goals are to provide support, reduce emotional trauma, and gather evidence for possible legal proceedings.
- Patient reaction: rape trauma syndrome
- History taking and documentation
- Physical examination and collection of forensic evidence
- Role of the sexual assault nurse examiner (SANE)

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