Unit Four - Safe and Sound

Patient and Employee Safety - Lecture Notes

Safety

- Freedom from danger, risks, and injury.
- Quality health care begins with the safety of the patient and the health care worker.
- You must know how to respond if an emergency occurs.
- SAFETY FIRST!
- Questions:
 - · What are some personal safety practices that you do everyday?
 - · "That looks like an accident waiting to happen".
 - Causes of common accidents can be prevented.

Prevention

- The best way to control accidents and injuries is to prevent them.
- Regular safety training is required of health care workers.
- Report unsafe practices to a charge nurse or supervisor.
- Learn how to modify your environment to create safe working conditions.

Governing Agencies

- Occupational Safety and Health Administration (OSHA).
 - · Oversees safety in the workplace.
- Centers for Disease Control & Prevention (CDC).
 - · Set standards for accidental transmission of diseases.
- Food and Drug Administration (FDA).
- Environmental Protection Agency (EPA).

OSHA Standards

- Employees have the right to know what hazards are present in their environment.
- Employers are required to train and offer immunizations to high-risk employees in the first 10 days of a new job.
- Health care agencies and facilities must address:
 - · Ergonomic program
 - · Injury & illness program
 - · Hazard communication program
 - · Exposure control plan

Material Safety Data Sheets

- Required by OSHA all employees must be told about all hazards and chemicals in the workplace.
- Manufacturers are required to provide a copy of the MSDS for all products they sell.
- Formats are not standard, however the information that must be covered in an MSDS are standard.
- The MSDS should contain:
 - · Manufacturer's name and address.

- · Chemical information & formula.
- · Physical appearance and how to recognize it.
- · Health hazards.
 - Health hazard information
 - · Methods of exposure.
 - · First aid.
 - · Personal protective equipment required.
 - Occupational control measures
 - · Exposure limits.
 - Storage & special information
 - Hazard rating for the chemical

0 = no hazard

4 = extreme hazard

- · Fire and explosion data.
- · Reactivity level (stability, decomposition).
- · Personal protective equipment (PPE) required when handling the chemical.
- · Leak/spill disposal procedures.
- · Hazard rating for the chemical.
- Labels
 - · All chemicals must be properly labeled.
 - · If a label is not readable or is missing, it must be replaced or the chemical disposed of.
 - · Must include chemical name, hazard warning, and manufacturer's information.
- Failure to comply can result in large fines for health care institutions.

Waste Handling

- Huge fines are also given for improper medical waste disposal.
 - · Sharp instruments
 - · Must be disposed of in "sharps containers", securely affixed to a wall or counter to avoid tipping.
 - · Containers cannot be emptied & re-used.
 - · Biohazardous materials
 - · Red bag with biohazard label.
 - · Chemotherapy wastes
 - · Yellow bag with chemotherapy label.
 - · Radioactive wastes
 - · Handled only by nuclear medicine or by radiological health.
 - · Chemical wastes
 - · Bagged with clearly identifiable label as to the material contained.

Spill Response

- The general spill response is to:
 - · Isolate the area to prevent personnel exposure and spreading of material.
 - · Notify supervisor and other appropriate departments.
 - · Utilize Body Substance Precautions when cleaning up blood or other potentially infectious materials.

Preventing Accidents

- All members of the health care team must commit to safety.
- Every accident/injury must be documented and reviewed to help prevent future accidents.
- Poor judgment, physical limitation, and lack of training are a few of the causes of accidents.
- Education is the key to a safe facility.
- Accidents can be divided up in to two main categories:
 - · Accidents related to the physical environment and equipment.
 - · Accidents related to patient care.
- Guidelines for preventing and reacting to accidents and emergencies:
 - · Know the environment, including the location of exits, stairs, fire alarms and extinguishers, call signals, paging systems, and emergency lights.
 - · Know the safety policies and procedures for your facility.
 - · Operate only the equipment you are trained to use.
 - · Report accidents, spills, and damaged or malfunctioning equipment immediately.
 - · Do not use frayed or damaged electrical cords or ungrounded equipment.
 - · Wash your hands frequently.
 - · Never use any product that does not have a readable label.
 - · Read all labels at least three times before using the product.
 - · Read the MSDS for any product you will be using.
 - · Wear personal protective equipment when handling hazardous or unknown chemicals.
 - · Never mix solutions or chemicals.
 - · Know how to report an accident or obtain emergency assistance.
 - · Use the right side of the hallway and stop at intersections.
 - · Allow others to exit before you enter stairways, doorways, or elevators.
 - · Wipe up spills and place litter in containers.
 - · Report any injury to yourself or others to your supervisor immediately.
- Guidelines for patient safety:
 - · Ensure that the patient knows how to operate call signals, emergency call lights, handrails, safety rails, and how to locate the bathroom.
 - · Identify patient and explain a procedure before beginning.
 - · Perform only those procedures for which you have been trained.
 - · Report safety hazards, such as spills, loose carpet, or extremely hot food or drinks.
 - · Be aware of any changes in the patient and report them to your supervisor immediately.
 - · Ensure the privacy, safety, and comfort of your patient.

Fire Safety

- Fires are one of the dangers most feared by health care providers.
- A fire or threat of fire can be extremely frightening to patients who may be unable to leave a facility on their own.
- Fire can occur in any setting when three elements are present.
 - · <u>Fuel</u>: something that will burn.
 - · Heat: enough to make the fuel burn.
 - · Oxygen: to feed the fire.

Types of Extinguishers

• 5 types are available, with ABC being the most common.

Fire Extinguishers	
<u>Class</u> A (Water) B (Carbon Dioxide) C (K bicarbonate) D ABC (Chemical)	Application Common combustibles Flammable liquids Electrical Combustible metals All ABC fires

How to Use a Fire Extinguisher

- Remember the key word PASS:
 - \cdot P = Pull the pin.
 - \cdot A = Aim at the base of the fire.
 - · S = Squeeze handle.
 - · S = Sweep nozzle from side to side to displace oxygen away from the fire.
- Stand about 6-10 feet away from the fire.

Putting Out Fires

- If your clothes are burning, immediately drop to the ground and roll back and forth quickly.
 - · Stop, drop, and roll.
- Do not use water for grease or electrical fires. Use an ABC or C only fire extinguisher or throw baking soda over the flames.
 - · Shut off the main power supply for electrical fires.
- If the fire is small, you can try to put it out. However, if the flames begin spreading, evacuate immediately and call 911.

When a Fire Emergency Occurs

- Remember the key word RACE:
 - · R = Rescue.
 - · A = Alarm. Assign someone to pull the alarm.
 - · C = Contain. Close the windows and doors.

Emergency Fire Rules

- Be prepared! Know your responsibilities.
- Know when and how to evacuate.
- Know where the fire alarms are located and how to activate them.
- Keep fire extinguishers in plain view and readily accessible.
- Practice fire safety and safe evacuation with patients and staff.
- Keep areas uncluttered.
- Evacuate ambulatory patients first, then the wheel-chair bound, then the bed-bound.
- If possible, never leave a patient alone in a fire emergency.
- Never use an elevator in a fire situation.
- Never open windows.
- Never open a door that feels hot.
- Follow your facility's procedures when a fire is discovered.

Rules for Oxygen Use

- Post a "No Smoking Oxygen in Use" sign.
- Remove all smoking materials, candles, lighters, and matches from the room.
- Avoid the use of electrically operated equipment whenever possible.
- Do not use flammable liquids such as alcohol, nail polish, and oils.
- Avoid static electricity by using cotton blankets, sheets, and gowns.

Disaster Preparedness

- In addition to fires, other types of disasters may occur.
- Examples include tornadoes, hurricanes, earthquakes, floods, and bomb threats.
- In any type of disaster:
 - · Stay calm.
 - · Follow the policy of the facility.
 - · Provide for the safety of yourself and the patients.
- All health care facilities are required to have a disaster plan.
- You are legally responsible for knowing the plan and responding when a disaster occurs.
- Rules to remember when a disaster strikes:
 - · Assess the situation, stay calm.
 - · Be sure that you are not in danger.
 - · Remove those who are in immediate danger, if it is safe to do so.
 - · Notify others of the emergency according to policy.
 - · Use the stairs, not the elevator.

Body Mechanics

- Positions and movements used to maintain proper posture and avoid muscle and bone injuries.
- Back injury is the number one injury experienced by health care workers while they are on the job.
 - · Lift, transfer, or position patients.

Principles of Body Mechanics

- Body alignment depends on the correct positioning of the head, back, and limbs.
- The body performs better when it is in alignment.
- Preserve the natural curves of the back.
- Proper standing position
 - · Feet flat on floor, about 6-10 inches apart.
 - · Back straight, knees flexed slightly.

Body Mechanics Failure

- Causes back problems including acute strains, sprains, disc strain and bulge, disc herniation, and fatigue.
- Prevention is the best cure for back pain.

Key Components of Body Mechanics

- Keep feet a shoulder-width apart wide base of support.
- Always use two hands to move someone or something.
- Face the direction in which you intend to move. Never twist.
- · Avoid unnecessary reaching.
- Keep your chin up and look straight ahead.
- Keep your shoulders back.
- Bend at the hips and knees.
- Keep your back straight.
- Keep the object you are lifting close to your body.
- Exhale when you are lifting or exerting force.
- Tighten your abdominal muscles.
- · Lift with your legs, not your back.
- Push, pull, or slide instead of lifting.
- Pushing is the best technique for moving something large.
- Use the weight of your body to help you push or pull.
- Always ask for help whenever needed.
- Tell the patient what you are going to do and ask for the patient's help.

Ergonomics

- Promote the safety and well-being of a person by adapting the environment and using techniques to prevent injuries.
 - · Correct placement of furniture and equipment.
 - · Training in required muscle movements.
 - · Efforts to avoid repetitive motions.
 - · Awareness of the environment to prevent injuries.
- You spend a large portion of your day in the work environment.
- You should be comfortable, use good posture, and learn exercises to prevent getting stiff and sore.
- Your chair, desk, and computer must be adjusted to fit your needs.

Standard Safety Precautions

- Standard precautions are appropriate for all patients receiving care or service in a health care environment, regardless of their diagnosis.
- These precautions provide protection from contact with blood, mucous membranes, non-intact skin, and all body fluids.
- Three diseases that can be contracted by exposure to body fluids include:
 - · Hepatitis B
 - · Hepatitis C
 - · AIDS/HIV
- Personal protective equipment
 - · <u>Gloves</u>: wear when in contact with any body fluids or non-intact skin; wear when you have a rash, open sores, or chapped skin.
 - \cdot Nonpermeable gowns: wear during procedures that are likely to expose you to any body fluids.
 - · <u>Mask</u>, <u>protective eyewear</u>, <u>face shield</u>: wear when splashes or droplets are likely (i.e. patient coughing continuously).

Patient Safety

- When you work directly with a patient you must always identify the patient to avoid mistakes.
- Ambulation devices must be structurally safe and covered with rubber tips to prevent slipping.
- Transporting devices (wheelchairs and gurneys) brakes should be locked except when you are moving, secure straps or put up side rails, never leave patients unattended.
- Postural supports/restraints a physician's order is required by law, only used when a patient's safety is in jeopardy. Check patients frequently.
- Side rails falls from beds are a common cause of injury.
 - · Always in place at night.
 - · Small children, heavily medicated patients, and confused or restless patients require side rails at all times.
- Make sure you have the proper authorization to perform any procedure on a patient.
- Use correct and approved methods while performing any procedure.
- Provide privacy for all patients. Ask for permission to enter.
- Always identify the patient. Also identify yourself.
- Explain the procedure so the patient knows what you are going to do informed consent.
- Answer any questions.
- Be alert to the patient's condition at all times.
- Observe all safety checkpoints before leaving.

It's Your Responsibility!

- Every health care worker must accept the responsibility for using good judgment in all situations, asking questions when in doubt, and following approved policies and procedures to create a safe environment.
- The health care worker has a legal responsibility to protect the patient from harm and injury.

Questions:

- If a glass bottle of medicine falls on the floor and breaks, what should you do?
- Why should yearly safety training be conducted at a health care facility?
- Which type of fire extinguisher is most commonly used and why?