Arkansas CTE

Medical Procedures: Grades 9, 10, 11, 12

Adopted 2006

Safety

1.1 Define terminology related to safety in medical procedures

1. Prepare a written list of terms and definitions related to safety 1.1.1

1.2 Outline the basic rules of good body mechanics

1. Demonstrate correct body mechanics 1.2.1

1.3 Identify safety regulations for equipment and solutions used in health care

1. List and define sections of the MSDS 1.3.1
2. Demonstrate proper usage of medical equipment 1.3.2

1.4 Discuss regulations for patient safety when performing procedures in the laboratory or clinical area

1. Demonstrate proper patient safety procedures 1.4.1
2. List consequences of not following proper safety procedures 1.4.2

1.5 Discuss regulations to observe for personal safety

1. Create posters promoting safety regulations 1.5.1
2. Formulate specific safety regulations for the classroom 1.5.2

1.6 Identify three elements needed to start a fire

1. List the three elements needed to start a fire 1.6.1

1.7 Describe the main classes of fire extinguishers

1. List and describe the main classes of fire extinguishers 1.7.1

1.8 Outline fire safety and evacuation guidelines

1. Simulate the operation of a fire extinguisher 1.8.1
2. Illustrate a fire evacuation plan/route for the classroom 1.8.2

Infection Control

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2.1 Define terminology related to infection control

1. Prepare a written list of terms and definitions related to infection control 2.1.1

2.2 Discuss classification of micro-organisms

1. List different classifications of micro-organisms 2.2.1
2. Give examples for each different classification 2.2.2
3. Identify shapes and characteristics of common micro-organisms 2.2.3
4. View slides of various micro-organisms 2.2.4

2.3 Discuss elements in the chain of infection

1. Determine ways to break the chain of infection 2.3.1

2.4 Distinguish between antisepsis, disinfection, and sterilization

1. Define antisepsis, disinfection, and sterilization 2.4.1
2. Differentiate between antisepsis, disinfection, and sterilization 2.4.2

2.5 Describe how pathogens affect the body

1. List effects pathogens have on the body 2.5.1

2.6 Outline the correct procedure for washing hands

1. Demonstrate the correct procedure for washing hands 2.6.1

2.7 Outline universal blood and body fluid precautions

1. Demonstrate universal precautions 2.7.1
2. Discuss health risks associated with not following precautions 2.7.2

2.8 Discuss principles of sterilizing with an autoclave

1. Prepare items for sterilizing in an autoclave 2.8.1

2.9 Discuss methods of infection control

1. Demonstrate a method of infection control 2.9.1
2. List and describe methods of infection control 2.9.2
3. Discuss the healthcare worker's role in infection control 2.9.3

2.10 Differentiate between sterile and contaminated

1. Identify sterile and contaminated areas of equipment 2.10.1
2. List and describe modes of contamination 2.10.2

2.11 Explore techniques for removing articles from sterile wraps

1. Open sterile packages without contaminating the contents 2.11.1
2. Don sterile gloves without contaminating the gloves 2.11.2
3. Prepare a sterile dressing tray without contaminating the supplies 2.11.3

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2 Outline the purposes of isolation

1. Explain the purposes of isolation 2.12.1
2. List and describe consequences of not following isolation procedures 2.12.2
3. Give examples of when isolation is warranted 2.12.3

2.13 Distinguish between types of isolation

1. Properly don an isolation mask, cap, and gown 2.13.1
2. Properly remove an isolation mask, cap, and gown 2.13.2

Vital Signs

3.1 Define terminology related to vital signs

1. Prepare a written list of terms and definitions related to vital signs 3.1.1

3.2 Explore main vital signs

1. List main vital signs 3.2.1
2. Demonstrate measurement techniques of main vital signs 3.2.2
3. Describe how measurements are used to assess health status 3.2.3

3.3 Outline factors influencing body temperature

1. List factors influencing body temperature 3.3.1
2. Describe physiological mechanisms responsible for controlling body temperature 3.3.2
3. List body tissues responsible for maintaining and/or elevating body temperature 3.3.3
4. Describe consequences of an elevated body temperature 3.3.4

3.4 Identify the sites for taking body temperature

1. Demonstrate ability to take body temperature at different sites 3.4.1
2. List and describe the different sites for taking body temperature 3.4.2

3.5 Describe the normal ranges of body temperature for each body site

1. Define normal ranges of body temperature for each body site 3.5.1

3.6 Outline the procedure for measuring and recording body temperature

1. Recognize types of thermometers 3.6.1
2. Demonstrate procedure for measuring and recording and oral, axillary, and rectal temperature accurately 3.6.2

3.7 Discuss Fahrenheit and Celsius temperatures

1. Convert Celsius temperatures to Fahrenheit 3.7.1
2. Convert Fahrenheit temperatures to Celsius 3.7.2

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Identify the sites where pulse may be taken

1. List and describe the sites where pulse may be taken 3.8.1
2. Demonstrate ability to measure pulse at different sites 3.8.2

3.9 Describe the normal ranges for pulse

1. Define normal range for pulse rate 3.9.1

3.10 Describe the factors that influence pulse rate

1. List factors influencing pulse rate 3.10.1
2. Discuss ways to alleviate an abnormal pulse rate 3.10.2
3. Give examples of disease and/or health conditions that can cause high pulse rates 3.10.3

3.11 Outline the procedure for measuring and recording radial pulse

1. Demonstrate the procedure for measuring and recording radial pulse 3.11.1

3.12 Discuss the two parts of respiration

1. Differentiate between the two parts of respiration 3.12.1

3.13 Discuss the factors that should be noted about respirations

1. List and describe factors worth noting about respirations 3.13.1
2. Give examples of health conditions that cause abnormal respirations 3.13.2

3.14 Identify the normal ranges for respirations

1. Define normal ranges for respirations 3.14.1

3.15 Outline the procedure for measuring and recording respirations

1. Demonstrate procedure for measuring and recording respirations 3.15.1

3.16 Outline systolic and diastolic blood pressure

1. Describe how systolic and diastolic pressures are derived with regard to the cardiac cycle 3.16.1

3.17 Describe the normal ranges of blood pressure

1. Define the normal ranges for blood pressure 3.17.1

3.18 Discuss the factors that can alter blood pressure

1. List and describe the factors that can alter blood pressure 3.18.1
2. Give examples of health conditions and/or disease that can cause an abnormal blood pressure 3.18.2
3. Discuss health risks associated with chronic high blood pressure 3.18.3

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3.19 Outline the procedure for measuring and recording blood pressure

1. Demonstrate the procedure for measuring and recording blood pressure 3.19.1

CPR/First Aid

4.1 Define terminology related to CPR/First Aid

1. Prepare a written list of terms and definitions related to First Aid/CPR 4.1.1

4.2 Identify the basic principles of providing first aid

1. List and describe the basic principles of providing first aid 4.2.1
2. Give examples of when first aid principles should be applied 4.2.2

4.3 Outline the procedure for performing cardiopulmonary resuscitation (CPR)

1. Demonstrate CPR procedures for one-person rescue, two-person rescue, and CPR for infants and children 4.3.1

4.4 Outline the procedure for performing CPR on a victim with an obstructed airway

1. Demonstrate the procedure for performing CPR on a victim with an obstructed airway 4.4.1

4.5 Outline the procedure for providing first aid for bleeding wounds

1. Demonstrate the procedure for providing first aid for bleeding wounds 4.5.1

4.6 Outline the procedure for providing first aid for shock

1. Demonstrate the procedure for providing first aid for shock 4.6.1

4.7 Outline the procedure for providing first aid for poisoning

1. Demonstrate the procedure for providing first aid for poisoning 4.7.1
2. Find various poisonous chemicals in the MSDS 4.7.2

4.8 Outline the procedure for providing first aid for burns

1. Demonstrate the procedure for providing first aid for burns 4.8.1
2. List and differentiate between different degrees of burns 4.8.2

4.9 Outline the procedure for providing first aid for heat and cold exposure

1. Demonstrate the procedure for providing first aid for heat and cold exposure 4.9.1

4.10 Outline the procedure for providing first aid for bone and joint injuries

1. Demonstrate the procedure for providing first aid for bone and joint injuries 4.10.1

4.11 Outline the procedure for providing first aid for sudden illness

1. Demonstrate the procedure for providing first aid for sudden illness 4.11.1

4.12 Outline the procedure for providing first aid for injuries to the eyes, head, nose, ears, chest, abdomen, and genitals

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1. Demonstrate the procedure for providing first aid for injuries to the eyes, head, nose, ears, chest, abdomen, and genitals 4.12.1

Medical Math

5.1 Define terminology related to medical math

1. Prepare a written list of terms and definitions related to medical math 5.1.1

5.2 Explore the systems of measurement used in the health care profession

1. List and define measurement systems 5.2.1
2. Provide examples of each system used in health care professions 5.2.2

5.3 Identify metric units of measure used to determine length, weight, and volume

1. Match different metric units to their appropriate measurement 5.3.1

5.4 Identify standard (English) units of measure used to determine length, weight, and volume

1. List standard units of measurement used to describe length, weight, and volume 5.4.1

5.5 Identify metric abbreviations and their units of measurement

1. Match metric abbreviations to the correct unit of measurement 5.5.1

5.6 Identify standard abbreviations and their units of measurement

1. Match standard abbreviations to the correct unit of measurement 5.6.1

5.7 Identify apothecary abbreviations and their units of measurement

1. Match apothecary abbreviations to the correct unit of measurement 5.7.1

5.8 Describe metric, standard, and apothecaries' approximate equivalents

1. Discuss metric, standard, and apothecaries' approximate equivalents 5.8.1
2. Solve problems using approximate equivalents 5.8.2

5.9 Outline the process of converting from one unit to another within the same system of measurement

1. Solve conversion problems within the same system of measurement 5.9.1
2. Demonstrate the process of converting from one unit to another within the same system of measurement 5.9.2

5.10 Outline the process of converting units of measure from one system of measurement to another system of measurement

1. Solve conversion problems from one system of measurement to another system of measurement 5.10.1
2. Interpret medication orders accurately 5.10.2

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5.11 Describe the Roman numeric system

1. Write correct Roman numerals for given numbers 5.11.1

Medical Charting & Abbreviations

6.1 Define terminology related to medical charting and abbreviations

1. Prepare a written list of terms and definitions related to medical charting and abbreviations 6.1.1

6.2 Describe sections of a medical chart

1. List the different sections of a medical chart 6.2.1
2. Explain the purposes of each section of a medical chart 6.2.2
3. Match specific patient medical information to the appropriate section of a medical chart 6.2.3

6.3 Describe procedures for creating and correcting medical chart notes

1. List parts of a S.O.A.P. note 6.3.1
2. Write examples of a S.O.A.P. note 6.3.2
3. Explain procedures used to make corrections to medical chart notes 6.3.3
4. Match specific patient information to the appropriate section of a chart note 6.3.4

6.4 Discuss legal and ethical concerns regarding medical charts

1. List legal do's and don'ts involving medical charts 6.4.1
2. Discuss current laws regarding inappropriate disclosure of patient information located in medical charts 6.4.2
3. Role-play various scenarios involving both appropriate and inappropriate disclosure of patient information 6.4.3

Medical Abbreviations

7.1 Define terminology related to medical abbreviations

1. Prepare a written list of medical abbreviations 7.1.1

7.2 Discuss proper usage of medical abbreviations when charting

1. Create a medical chart note using several common abbreviations 7.2.1
2. Interpret sample medical chart notes 7.2.2
3. Discuss possible implications of incorrectly used abbreviations 7.2.3

Career and Technical Student Organizations (SkillsUSA/HOSA)

8.1 Define terminology related to student organizations

1. Use terms appropriately in context 8.1.1

8.2 Outline a self-assessment and identify individual learning styles

1. Show individual strengths 8.2.1
2. Show areas in need of improvement 8.2.2

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8.3 Describe self-motivation techniques and establish short-term goals

1. Prepare a list of short-term goals 8.3.1
2. Discuss ways to change or improve lifestyle appearance and behavior 8.3.2

8.4 Give examples of individual time-management skills

1. Prepare and maintain a time journal 8.4.1
2. Outline ways to improve time management skills 8.4.2

8.5 Predict future occupations

1. Research the Internet to explore for career opportunities within specified fields of study 8.5.1
2. Prepare a presentation on a specified career area 8.5.2

8.6 Identify the customer

1. Differentiate between External and Internal customers 8.6.1
2. Identify factors which contribute to poor customer relationships 8.6.2

8.7 Identify the benefits of doing a community service project

1. Outline ways to become involved in the community 8.7.1
2. Develop a community service project 8.7.2

8.8 Describe effective communication with others

1. Note personal barriers to listening 8.8.1
2. Relate a personal plan to overcome barriers to listening 8.8.2

8.9 Give locations for a shadowing activity

1. Summarize and relate an experience of job shadowing activity 8.9.1

8.10 Identify the components of an employment portfolio

1. Present parts of a portfolio 8.10.1
2. Compile a personal employment portfolio for an interview 8.10.2

8.11 List proficiency in program competencies

1. Construct an interpersonal competency assessment 8.11.1

8.12 Describe how to measure/modify short-term goals

1. Discuss how to pursue short-term goal(s) 8.12.1

8.13 Identify stress sources

1. Prepare a list of personal sources of stress 8.13.1
2. Outline techniques to cope with individual sources of stress 8.13.2

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8.14 Identify characteristics of a positive image

1. List behaviors and traits that lead to a positive image 8.14.1
2. Note behaviors and traits that lead to a negative image 8.14.2

8.15 Describe how team skills can be applied to a group project

1. Form a team to develop a class project 8.15.1

8.16 Outline how to observe and critique a meeting

1. Attend a formal meeting held with in the community 8.16.1
2. Prepare a critique of the meeting attended 8.16.2

8.17 List business meeting skills

1. Relate the basic rules required to ensure an orderly and business-like meeting 8.17.1
2. Demonstrate with role-playing to illustrate appropriate meeting skills 8.17.2

8.18 Outline a survey for employment opportunities

1. Compile information on a particular employment opportunity of interest 8.18.1
2. Perform an Internet search of a specific career area 8.18.2

8.19 Select a professional journal for review and develop a three to five minute presentation

1. Prepare a presentation on the content, purpose, and distribution of a particular professional journal 8.19.1

8.20 Identify customer expectations

1. List customer expectations 8.20.1
2. Discover the consequences of unmet customer expectations 8.20.2

8.21 List parts of a job application

1. Prepare a job application from various businesses in the community 8.21.1
2. Demonstrate a mock job interview 8.21.2

8.22 Outline your employment portfolio

1. Construct a personal employment portfolio 8.22.1

8.23 Identify supervisory and management roles in an organization

1. Prepare an organizational chart 8.23.1
2. Outline the responsibilities of managers and supervisors 8.23.2

8.24 Outline safety issues

1. Research safety issues within a given career area 8.24.1