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ABSTRACT

GRADES OR AGES: Grades 7-9. SUBJECT MATTER: First aid and survival education. ORGANIZATION AND PHYSICAL APPEARANCE: The guide is divided into five sections: bandaging skills, control of bleeding, conditions caused by extremes in temperatures, foreign substances in body openings, and other common emergencies. The publication format of four columns gives the outline of content, the major understandings and fundamental concepts, suggested teaching aids and learning activities, and supplementary information for teachers. The course objectives are presented in the introduction. OBJECTIVES AND ACTIVITIES: Each subsection contains questions and topics for discursion. The supplementary information provides teachers with further discussion material. INSTRUCTIONAL MATERIALS: Information is given on measuring body temperature, pulse, and respiration, a brief description on making bandages is also presented. Lists of multimedia resources are presented for teachers and students. Information is also given on the procurement of teaching kits, flip charts, mannequins, and injury simulations. STUDENT ASSESSMENT: No provision is made. CPTIONS: The guide is suggestive only. (BRB)

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HEALTH CURRICULUM MATERIALS Grades 7, 8, 9

STRAND V — EDUCATION FOR SURVIVAL FIRST AID AND SURVIVAL EDUCATION

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HEALTH CURRICULUM MATERIALS Grades 7, 8, 9

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FOREWORD

This publication contains curriculum suggestions for teaching Strand V - Education for Aid and Survival Education, for grades 7, 8, and 9.

The publication format of four columns is intended to provide teachers with: a basic co in the first column; a listing of the major understandings and fundamental concepts which chi achieve, in the second column; and information specifically designed for classroom teachers v provide them with resource materials, teaching aids, and supplementary information, in the th fourth columns.

The comprehensive nature of the health program makes it imperative that teachers gain fa with all of the strands presently in print. In this way, important teaching-learning experie developed by <u>cross-referring from one strand to another</u>.

It is recommended that the health coordinator in each school system review these materia and consult with teachers, administrators, and leaders of interested parent groups in order the most appropriate manner in which to utilize this strand as an integral part of a locally and comprehensive program in health education.

The curriculum materials presented here are in tentative form and are subject to modific content and sequence. Critiques of the format, content, and sequence are welcomed.

> Gordon E. Van Hooft Chief, Bureau of Secondary Curriculum Development

William E. Young Director, Curriculum Development Center



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FOREWORD

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Gordon E. Van Hooft Chief, Bureau of Secondary Curriculum Development

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Multimedia Resources

OVERVIEW

A knowledge of first aid procedures makes it possible for an individual to face and handle health emergencies which may occur in everyday living. The adolescent should begin to develop an awareness of his responsibility to others in these emergency matters. On the other hand, he should also become aware of the limitations of first aid and those things which he should not attempt. For example, first aid education should not go beyond emergency care and treatment....It is not its intent to teach students how to cure illness or to correct injuries.

The basic goals of first aid education, however, do include student instruction in those procedures which will bring about the prevention of (1) death, and (2) further injury to a victim of sudden illness or accident. Consequently, to bring about these ends, appropriate content and learning experiences should be provided.

It becomes obvious that teachers should be prepared to teach first aid and should hold an American Red Cross Instructor's Certificate or have received college training in first aid in becoming certificated as a health educator.

OUTCOMES

Students in grades 7, 8, and 9 should:

- . learn how to lessen the possibilities for the occurrence of those emergencies that are most likely to affect junior high school students.
- . learn how to deal with the emergencies which may occur in everyday living that require first aid.
- . learn how to use the various kinds of first aid dressings, bandages, and other materials and equipment.
- . develop an appreciation of the first aid procedures which will help to save lives and minimize injury.
- . develop confidence in administering first .id in many kinds of emergency situations.
- . acquire skills in improvising procedures whenever necessary.



OUTLINE	OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEM F
	REFER TO STR	AND V, FIRST AID AND SURVIVAL	EDUCATION, GRADES 4, 5, 6, FO	R INTRODUCT
I. Bandagin	ng Skills	There are many everyday emergencies, e.g., cuts, burns, and lacerations which require bandaging.	Have students list some actual injuries they encountered within the past month.	The New Yo of Health the New Yo Commission page 18 ¹ / ₂ "
		In order for bandages to be effective they must be applied correctly.	 treated? Who administered the first aid? Which ones required the attention of the physician? 	chart on f bound in c used as a table. It in Spanish dressings as other a
			Show the filmstrip Dres- sings and Bandages Used in First Aid which is pro- duced by McGraw-Hill Films.	
			Have the students make a display of the kinds of dressings and bandages used in first aid.	
Á. Dress	sing	A dressing is any material applied directly over a wound or a burn.	What is a compress? How does it differ from a bandage? Why should it be sterile? What is a dres- sing?	Most dress gauze which pressurize very absort to circula Cotton, if may be use Cotton sho directly o



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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS 04D LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

directly over a wound, however.

V, FIRST AID AND SURVIVAL EDUCATION, GRADES 4, 5, 6, FOR INTRODUCTION.

Have students list some The New York State Department here are many everyday of Health in conjunction with mergencies, e.g., cuts, actual injuries they the New York Civil Defense encountered within the urns, and lacerations Commission has prepared a 102hich require bandaging. past month. page 18½" x 28½" color flip How were they In order for bandages to be chart on first aid. It is treated? ffective they must be bound in covers which can be Who administered the pplied correctly. used as a stand on a desk or a first aid? table. It is also available Lhich ones required the in Spanish. It deals with attention of the dressings and bandages as well physician? as other aspects of first aid. Show the filmstrip Dressings and Dandares Used in First Aid which is produced by McGraw-Hill Filrs. Have the students make a display of the kinds cf dressings and bandages used in first aid. What is a compress? How Most dressings are made of dressing is any material pplied directly over a does it differ from a gauze which is sterilized under ound or a burn. bandage? Why should it be pressurized steam. Gauze is very absorbent and permits air sterile? What is a dressing? to circulate over the wound. Cotton, if wrapped in gauze, may be used as a compress. Cotton should not be placed



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUP
1. Functions	Dressings have several major functions.	What are the major pur- poses of dressings?	Dressi follow
		How do they tend to lessen pain from an injury?	. to . to r . cont
		Why should the first aider be concerned about infections?	wour to i arou to i
	Dressings should be sterile in order to prevent contamination of the wound.	Discuss and demonstrate ways materials may be sterilized for use as com- presses.	If an o unconta Sterili of any all lif
	Improper handling of dres- sings may cause them to become contaminated, which, in turn, will contaminate the wound.	What are the best kinds of materials to use? Demonstrate how a compress may be removed from a package and applied to the injury without contamina- tion. Allow students to practice applying com- presses on each other. Show how a compress may be	usually or the ultravi may be tion in or hot prolong (dry he incinent information sterili Frobish
		refolded without contami- nating the inner surfaces.	of bact W.B. Sa
		Have a speaker from a first aid supply company discuss the industrial sterilization of first aid products. Take a field	If ster availab should germs of removed

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
Dressings have several major functions.	What are the major pur- poses of dressings?	Dressings are essential for the following purposes.
	How do they tend to lessen pain from an injury?	 to control hemorrhage to protect the wound from contamination by bacteria
	Why should the first aider be concerned about infections?	 to absorb fluids from the wound to raise the temperature around the wound to relieve pain, especially in the case of burns
Dressings should be sterile in order to prevent contamination of the wound.	Discuss and demonstrate ways materials may be sterilized for use as com- presses.	If an object is sterile it is uncontaminated by germs. Sterilization means the freeing of any object or substance from all life of any kind. This is
Improper handling of dres- sings may cause them to become contaminated, which, in turn, will contaminate the wound.	What are the best kinds of materials to use? Demonstrate how a compress may be removed from a package and applied to the injury without contamina- tion. Allow students to practice applying com- presses on each other. Show how a compress may be refolded without contami- nating the inner surfaces.	usually accomplished by heat, or the use of chemicals or ultraviolet radiation. Heat may be applied for steriliza- tion in three ways: by steam or hot water (moist heat); by prolonged baking in an oven (dry heat); by complete incineration. For detailed information on the means of sterilization read: Martin Frobisher, Jr., Fundamentals of bacteriology. Philadelphia, W.B. Saunders Company, 1962.
	Have a speaker from a first aid supply company discuss the industrial sterilization of first aid products. Take a field	If sterile compresses are not available, a clean fabric should be used. Some of the germs on the fabric may be removed by scorching with a

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OUTLINE OF CONTENT	FUNDAMENTAL CONCEPTS	AND LEARNING ACTIVITIES	SUPPLE
		trip to a first aid supply company. Contact Johnson and Johnson Company, New Brunswick, New Jersey, or Laerdal Medical Corpora- tion, 136 Marbledale Road, Tuckahoe, N.Y. 10707.	flame, ir under clo hot oven, soap and it thorou
2. Kinds	There are many different kinds of dressings.	List and discuss the kinds of wounds which require a dressing.	Gauze squ sizes ran square to They are
	Certain kinds of injuries require special types of dressings.	Have the class list the injuries which may require a special dressing.	packages sterility many laye
		 What makes it special? Describe the special dressing. 	Gauze squ primarily In order shake the corner of off the co of the co through the touch or the dress the wound is placed
a. Commercial dressings	Commercially made dressings include: • adhesive bandages • bandage compress • gauze compresses of various sizes.	Demonstrate: (1) how to remove and apply an adhesive bandage, (2) how to remove and apply a bandage compress.	Adhesive available The adhes with one protect the adhesive a dressin

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small cut

MAJOR UNDERSTANDINGS AND SUGGESTED TEACHING AIDS SUPPLEMENTARY INFORMATION FUNDAMENTAL CONCEPTS AND LEARNING ACTIVITIES FOR TEACHERS trip to a first aid supply company. Contact Johnson and Johnson Company, New Brunswick, New Jersey, or Laerdal Medical Corporait thoroughly. tion, 136 Marbledale Road, Tuckahoe, N.Y. 10707. There are many different List and discuss the kinds kinds of dressings. of wounds which require a dressing. Certain kinds of injuries Have the class list the require special types of injuries which may require dressings. a special dressing. Gauze squares are used What makes it special? Describe the special dressing. Commercially made dressings Demonstrate: (1) how to include: remove and apply an adhesive bandage, (2) how adhesive bandages to remove and apply a bandage compress bandage compress. gauze compresses of various sizes.

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flame, ironing, heating it under close observation in a hot oven, or washing it with soap and water and then drying

Gauze squares come in various sizes ranging from a 1-inch square to a $3\frac{1}{2}$ -inch square. They are sealed in individual packages which ensure their sterility. They are made of many layers of folded gauze. primarily for burns and wounds.

In order to remove the compress shake the compress into one corner of the envelope, tear off the corner, grasp the edge of the compress, and pull it through the opening. Do not touch or breathe on the side of the dressing to be placed on the wound. Once the dressing is placed over the wound it may be secured with a bandage.

Adhesive compresses are available in various sizes. The adhesive is usually covered with one layer of crinoline to protect the adhesive. The adhesive compress acts as both a dressing and a bandage for small cuts or scratches.



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	
	Adhesive compresses usually consist of a pad of sterile gauze placed in the middle of a strip of adhesive.	Have students practice use of these dressings on simulated wounds.	Read Ar Fa
	The bandage compress con- sists of a pad made of several layers of sterile gauze sewed to the middle of a strip of gauze or muslin.		The comp squa usua or b may orig cont
b. Improvised dressings	Improvised dressings can be made from many materials including handkerchiefs, towels, and shirts.	Have students list mate- rials which may be used for a compress, those which may be used for bandages, and those which may be used for a dressing. Have students make a list of materials which should not be used in dressings and indicate the reasons. Have students make first aid kits. Include impro- vised dressings, compresses and bandages.	Acci situ ster avai the impr
		Have members of the class bring in sufficient numbers of shoe boxes so that each class member may make his own basic first aid kit.	



MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

of these dressings on

simulated wounds.

Adhesive compresses usually consist of a pad of sterile gauze placed in the middle of a strip of adhesive.

The bandage compress consists of a pad made of several layers of sterile gauze sewed to the middle of a strip of gauze or muslin.

Improvised dressings can be made from many materials including handkerchiefs, towels, and shirts.

Have students list materials which may be used for a compress, those which may be used for bandages, and those which may be used for a dressing. improvise a dressing. Have students make a list of materials which should not be used in dressings and indicate the reasons.

Have students make first aid kits. Include improvised dressings, compresses, and bandages.

Have members of the class bring in sufficient numbers of shoe boxes so that each class member may make his own basic first aid kit.

SUPPLEMENTARY INFORMATION FOR TEACHERS

Have students practice use Read:

American National Red Cross. First Aid Textbook. pp. 109-110.

The common sizes of the bandage compress are 2, 3, and 4-inches square. The dressing is usually made so that by cutting or breaking a stitch the pad may be unfolded to twice the original size. It is a selfcontained compress and bandage.

Accidents frequently occur in situations where standardized sterile compresses are not available. In such situations the first aider must be able to



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	AND LEARNING ACTIVITIES	SUPPL
		Demonstrate how compresses may be made from a rolled bandage.	
B. Bandage	A bandage is a strip of gauze or other material used for wrapping a wound.		
1. Functions	Bandages have many uses such as wrappings for dressings and splints, and to give support.	Have class list and demon- strate the many uses of a bandage.	Bandages . to ho . to an . as a suppo . to pa an in . to ap wound
2. Principles of bandaging	A bandage should be applied snugly, but should not be too tight or too loose. The tips of the fingers and toes should be left exposed wherever possible so that color changes may be observed. A bandage should be applied with the injured limb in the position in which it is to be carried.	 Discuss: Basic principles of bandaging Bandages which are too tight or too loose Why bandages should be properly applied Precautions which should be taken 	If the b the bloc of the e seriousl resultin tions in paralysi skin dis applied cyanotic Pain may extremit numbness <u>A first</u> with neg care has

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MAJOR UNDERSTANDINGS AND SUGGESTED TEACHING AIDS SUPPLEMENTARY INFORMATION FUNDAMENTAL CONCEPTS AND LEARNING ACTIVITIES FOR TEACHERS Demonstrate how compresses may be made from a rolled bandage. used for wrapping a wound. Bandages have many uses Have class list and demon-Bandages are used: strate the many uses of a to hold dressings in place bandage. to anchor a splint to give support. as a wrapping to give support to a joint to partially immobilize an injured part to apply pressure to a wound to control bleeding Discuss: If the bandage is too tight, the blood supply to the ends Basic principles of too tight or too loose. of the extremities may be bandaging seriously interferred with, Bandages which are too result. g in grave complicatight or too loose tions including gangrene and Why bandages should be paralysis. The color of the properly applied skin distal to a bandage Precautions which applied too tightly will be should be taken cyanotic (bluish) or pale. A bandage should be applied Pain may be present, the numbness and tingling may occur. A first aider may be charged with negligence if reasonable care has not been used.

A bandage is a strip of gauze or other material

such as wrappings for dressings and splints, and

A bandage should be applied snugly, but should not be

The tips of the fingers and toes should be left exposed wherever possible so that color changes may be observed.

with the injured limb in the position in which it is to be carried.

extremity may become cold, and

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OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPF
			If wet provisi shrinka result too tig circula
			A banda cause a come of bleedin serious
			SEE APP
II. Control of Bleeding	Serious bleeding needs to be controlled as quickly as possible because:		Serious frequer razors
	 serious shock may occur death can occur from loss of blood 		accider
A. Types of bleeding	Bleeding may vary from that of minor cuts and scratches to hemorrhage from major arteries and veins.	Explain the character- istics of blood coming from an artery, vein, capillary, lung, and other internal organs.	Arteria terized blood w wound i profuse
	The control of bleeding is the first major responsi- bility of the first aider.	Show: McGraw-Hill film- strips on Bleeding and Shock and Wounds.	Venous ized by
	Internal bleeding is treated the same as shock, and the symptoms will appear the same as in shock.	Simulaids are wound and bleeding simulations. This company has three kits available containing first	Capilla terized

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

If wet dressings are used, provision should be made for shrinkage. Shrinkage may result in the bandage becoming too tight and closing off circulation.

A bandage that is too loose may cause a dressing or splint to come off. If used to control bleeding, it may result in serious hemorrhage.

SEE APPENDIX D.

Serious bleeding and wounds frequently result from glass, razors, sharp metal, scissors, bullets, machinery, and car accidents.

Arterial bleeding is characterized by a flow of bright 1cd blood which comes from the wound in spurts and may be very profuse.

Venous bleeding is characterized by a steady flow of dark red blood which may also be profuse.

Capillary bleeding is characterized by bright red blood available containing first oozing into the tissues. The

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Serious bleeding needs to be controlled as quickly as possible because:

serious shock may occur death can occur from loss of blood

Bleeding may vary from that of minor cuts and scratches to hemorrhage from major arteries and veins.

The control of bleeding is the first major responsibility of the first aider.

Internal bleeding is treated the same as shock, and the symptoms will appear the same as in shock.

Explain the characteristics of blood coming from an artery, vein, capillary, lung, and other internal organs.

Show: McGraw-Hill filmstrips on Bleeding and Shock and Wounds.

Simulaids are wound and bleeding simulations. This company has three kits



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPL
		aid teaching aids. Of value for this unit would be the 36 assorted stick- on wounds.	blood dr wound an puddle i there.
٠			Blood th will be
			Blood co may be b coffee g long the stomach.
	The first aider should always treat for shock even though symptoms may not be present.	Why is it advisable to treat for shock even though it does not appear to be present?	Traumati with inj from wou etc. In caused b quantiti external cavity. Manual,
B. Direct pressure control	Most external bleeding can be controlled by applying pressure directly over the wound.	Demonstrate how to apply direct pressure over a wound using a sterile dressing. Have students work in pairs and practice	A steril or a clu is place firm pre the hance
	Pressure dressings may be used to effectively control mild bleeding from:	the application of direct pressure to simulated wounds.	Cole, W. First ai
	 capillaries veins arteries 	Demonstrate the applica- tion of pressure for the control of bleeding using a sterile gauze pad and roller bandage	manageme Hendersc medical

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
	aid teaching aids. Of value for this unit would be the 36 assorted stick- on wounds.	blood drips steadily from the wound and gradually forms a puddle in the tissues and clots there.
		Blood that comes from the lungs will be bright red and frothy.
		Blood coming from the stomach may be bright red or resemble coffee grounds depending on how long the blood has been in the stomach.
The first aider should always treat for shock even though symptoms may not be present.	Why is it advisable to treat for shock even though it does not appear to be present?	Traumatic shock is associated with injury to body tissues from wounds, fractures, burns, etc. In most instances it is caused by the loss of large quantities of blood either externally or within body cavity. See American Red Cross Manual, pp. 25-31.
Most external bleeding can be controlled by applying pressure directly over the wound.	Demonstrate how to apply direct pressure over a wound using a sterile dressing. Have students work in pairs and practice	A sterile dressing (compress) or a clean folded handkerchief is placed over the wound and firm pressure is applied with the hand
Pressure dressings may be used to effectively control mild bleeding from:	the application of direct pressure to simulated wounds.	Cove, W.H. & Puestow, C.B. First aid: diagnosis and
 capillaries veins arteries 	Demonstrate the applica- tion of pressure for the control of bleeding using a sterile gauze pad and roller bandage	Henderson, John. Emergency medical guide. pp. 146-147.

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OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SU
	Pressure dressings may be used to control severe wounds to arteries or veins after bleeding is under control.	and Simulaids wound simulations. Have students practice the application of pressure dressing with their partners.	Care n the ba may of to the
C. Pressure points	Pressure point control causes the bleeding to diminish but does not stop	Have students locate the various pressure points on themselves.	The tw are of are:
	A body location where pulse is felt is a pressure	Which pressure points can be used to control bleeding?	1. pr of th bo
,	A pressure point occurs where an artery comes close to the surface of the skin and passes over an under- lying bone.	Why are the others of little practical value? Show the students how to take a pulse. Have them practice taking a pulse.	2. pr gr ag
D. Tourniquet	The tourniquet should be used only for extremely severe hemorrhage that cannot be controlled by any other method.	 Discuss: When may a tourniquet be used? When and where should it never be used? 	Basic tourni . pla wou abu
	 The use of a tourniquet is justified if: large arteries have been severed in an extremity an extremity is partially or completely "overed. 	List precau ions to be observed in contemplating the use of a tourniquet. What may a tourniquet be made from? What material should be	. apj to . not pat soc . att inj tou

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

Pressure dressings may be used to control severe wounds to arteries or veins after bleeding is under control.

Pressure point control causes the bleeding to diminish but does not stop it.

A body location where pulse is felt is a pressure point.

A pressure point occurs where an artery comes close to the surface of the skin and passes over an underlying bone.

The tourniquet should be used only for extremely severe hemorrhage that cannot be controlled by any other method.

The use of a tourniquet is justified if:

- . large arteries have been severed in an extremity
- . an extremity is partially or completely severed.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

and Simulaids wound simulations. Have students practice the application of pressure dressing with their partners.

Have students locate the various pressure points on themselves.

Which pressure points can be used to control bleeding?

Why are the others of little practical value?

Show the students how to take a pulse. Have them practice taking a pulse.

Discuss:

- When may a tourniquet be used?
- . When and where should it never be used?

List precautions to be observed in contemplating the use of a tourniquet.

What may a tourniquet be made from?

What material should be avoided?

SUPPLEMENTARY INFORMATION FOR TEACHERS

Care must be taken not to make the bandage too tight since it may obstruct the flow of blood to the rest of the limb.

The two pressure points which are of greatest practical value are:

- pressure on the inner half of the upper arm, pressing the vessel against the bone
- 2. pressure just below the groin pressing the vessel against the pelvic bone

d

Basic procedure for applying a tourniquet would include:

- placing it close to the wound (about 1-2 inch) and above it.
- applying it tightly enough to stop tleeding.
- not removing it...taking patient to a physician as soon as possible
- attaching a nore to the injured indicating a tourniquet is in place.



OUTLINE OF CONTENT

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

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SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

Demonstrate the proper use of a tourniquet. Have students practice applying a tourniquet to a partner.

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See Red pp. 114

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Ш.	Conditions Caused by Extremes in Temperatures	Many emergencies result from exposure to extremes of temperature including burns, scalds, frostbite, heat exhaustion, heat cramps, and sunstroke.	Have students list condi- tions which may result from extremes in tempera- tures. (Include both hot and cold.)	
	A. Burns	Burns are injuries to tissue caused by:	What are burns?	Burns v involvi
		. high temperatures . electricity	What causes burns?	the ski involvi Both th

electricityradioactive substances

. chemicals

Burns are tissue lesions How are burns classified? classified according to the severity as:

- . first degree redness
- second degree blisters
 third degree charring
- . third degree chairin

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
	Demonstrate the proper use c. a tourniquet. Have students practice applying a tourniquet to a partner.	In teaching this area the teacher should <i>discourage</i> the use of the tourniquet as well as to emphasize its <i>proper</i> use when it <i>must</i> be used.
		See Red Cross First Aid Manual, pp. 114-117.
Many emergencies result from exposure to extremes of temperature including burns, scalds, frostbite, heat exhaustion, heat cramps, and sunstroke.	Have students list condi- tions which may result from extremes in tempera- tures. (Include both hot and cold.)	
Burns are injuries to tissue caused by: . high temperatures . electricity . radioactive substances . chemicals	What are burns? What causes burns?	Burns vary from minor ones involving the outer layers of the skin to severe ones involving underlying tissues. Both the extent and the intensity of damage to tissues determine the seriousness of burns.
Burns are tissue lesions classified according to the severity as: . first degree - redness . second degree - blisters . third degree - charring	How are burns classified?	Burns are classified by degree according to their depth or seriousness. In first degree burns, the damage is limited to the outer layer of the epidermis and is characterized by reddening, warmth, swelling, and pain. Blisters are not present.



DUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES
1. Thermal burns	Burns caused by excessive heat are called thermal burns.	Have the class define thermal burns. List the major and most common causes of thermal
		 How can these be pre- vented? What is the basic first aid for all thermal burns?
	First aid for thermal burns consists of:	Discuss first aid treat- ment for burns.
	 covering the burn with a dry, sterile compress treating for shock 	Refer to bandaging, Section I.
		. Why cover the burn with a dry compress? Why not a wet compress?

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

In second degree burns, damage extends through the epidermis and involves the dermis. There is deep red swelling, pa n, and blistering. There is leakage of plasma from the blood into the tissues causing the top layers of the skin to rise and form blisters.

In third degree burns there is destruction of both the epidermis and the dermis. The surface may be charred, coagulated, or white and lifeless.

Read: American National Red Cross. First aid textbook. pp. 70-78.

Henderson, John. Emergency medical guide. pp. 210-219.

First aid consists of relieving pain, preventing shock, and preventing infection. The exclusion of air from the burn helps to relieve pain. The application of a thick sterile dressing will help to relieve and prevent contamination. The administration of fluids is all important.

Burns caused by excessive heat are called thermal burns.

First aid for thermal burns consists of:

 covering the burn with a dry, sterile compress
 treating for shock Have the class define thermal burns.

List the major and most common causes of thermal burns.

- How can these be prevented?
 What is the basic first aid for all
- thermal burns?

Discuss first aid treatment for burns.

Refer to bandaging, Section I.

. Why cover the burn with a dry compress? Why not a wet compress?



00'	TLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS "Burn shock" may result in death. First aid pro- cedures should be started immediately to prevent or control shock.	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES . Why is treatment for shock essential in first aid for burns?	SUP PL E
·	2. Electrical burns	 An electrical burn may result from: electricity arcing between the power source and the victim being struck by lightning. The major problem in electrical burns is the secondary effects that involve the heart and respiration, which may require more immediate treatment than the burn itself. 	<pre>What is an electrical burn? What causes electrical burns? What precautions should the first aider take regarding electrical burns? What are the first aid procedures for electrical burns? How do these procedures differ from thermal burns?</pre>	Electrica frequentl homes. C a charged a common First aid person fr electrica artificia cardiac m burned ar dressing, electrica should be Read: Cole, W First a managen Henders medical 210-219
	3. Chemical burns	Chemical burns result from contact with: . strong acids . alkalies . corrosives	How do chemical burns differ from thermal or electrical burns? Discuss the causes and pre- vention of chemical burns.	Examples burn the acid, hyd acid, lye ammonia,



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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
"Burn shock" may result in death. First aid pro- cedures should be started immediately to prevent or control shock.	. Why is treatment for shock essential in first aid for burns?	
An electrical burn may result from: . electricity arcing	What is an electrical burn?	Electrical burns occur more frequently in industry than in homes. Coming in contact with
between the power source and the victim	burns?	a common cause.
lightning.	What precautions should the first aider take	First aid involves freeing the person from contact with the
The major problem in electrical burns is the	regarding electrical burns?	electrical wire, giving artificial respiration and cardiac massage, covering the
secondary effects that involve the heart and respiration, which may require more immediate	What are the first aid procedures for electrical burns? How do these procedures differ from thermal burns?	burned area with a sterile dressing, and treating for electrical shock. Medical aid should be sought immediately. Read:
treatment than the burn itself.		
		Cole, W.H. & Puestow, C,B. First aid: diagnosis and management. pp. 131-132.
		Henderson, John. Emergency medical guide. pp. 167-170; 210-219.
Chemical burns result from contact with: . strong acids	How do chemical burns differ from thermal or electrical burns?	Examples of chemicals that will burn the skin include sulfuric acid, hydrochloric acid, nitric
. alkalies . corrosives	Discuss the causes and pre- vention of chemical burns.	ammonia, and phosphorus.



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLE
	Containers of many house- hold chemicals list first aid procedures on their label.	Have students list the chemicals found in their home (or commonly found in most homes) which can potentially cause burns. How should these chemicals be kept? Do the labels on the con- tainers list first aid procedures? Why?	The chemi off with water. I are avail they show removing dressing the perso Acid burn with a di bicarbona
	 First aid procedures include: washing away the chemical with water neutralizing the chemical 	Discuss first aid pro- cedures for various kinds of chemicals.	dilute so Read: America First a Henders medical
4. Sunburn	Overexposure to the sun may produce very serious burns.	What are the causes of sun- burn? What precautions should be taken when using sun lamps?	Sunburns first or injured a exposed t healing i
	Sunburn is caused by over- exposure to ultraviolet rays from the sun or a sunlamp. Most cases of sunburn are the result of failure to	Can one get a sunburn on a cloudy day? Why? How effective are com- mercial preparations in protection from sunburn? Relieving pain?	Read: America First a Cole, W First a managem
	in the sun.		Henders medical

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	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
	Containers of many house- hold chemicals list first aid procedures on their label.	Have students list the chemicals found in their home (or commonly found in most homes) which can potentially cause burns. How should these chemicals be kept? Do the labels on the con- tainers list first aid procedures? Why?	The chemical should be washed off with large quantities of water. If first aid directions are available on the label, they should be followed. After removing the chemical, a sterile dressing should be applied and the person taken to a physician. Acid burns should be washed with a dilute solution of bicarbonate of soda. Alkali burns should be washed with a
	First aid procedures include:	Discuss first aid pro- cedures for various kinds	dilute solution of vinegar.
	 washing away the chemical with water neutralizing the chemical 	of chemicals.	Read: American National Red Cross. First aid textbook. pp. 78-79. Henderson, John. Emergency medical guide. pp. 218-219.
	Overexposure to the sun may produce very serious burns.	What are the causes of sun- burn? What precautions should be taken when using sun lamps?	Sunburns are normally of the first or second degree. The injured area should not be exposed to the sun again unless healing is complete.
	Sunburn is caused by over- exposure to ultraviolet rays from the sun or a sunlamp.	Can one get a sunburn on a cloudy day? Why? How effective are com-	Read: American National Red Cross. First aid textbook. pp. 77-78.
N 1 C	Most cases of sunburn are the result of failure to observe simple precautions in the sun.	mercial preparations in protection from sunburn? Relieving pain?	Cole, W.H. & Puestow, C.B. First aid: diagnosis and management.
			Henderson, John. Emergency medical guide. pp. 213-214.

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SUPPL SUGGESTED TEACHING AIDS MAJOR UNDERSTANDINGS AND AND LEARNING ACTIVITIES FUNDAMENTAL CONCEPTS OUTLINE OF CONTENT Lyght, manual therap Complete ments, q cannot b the fact are wash and bath B. Heat exhaustion The distinction between sun Have the class distinguish Heat str and sun stroke between heat stroke and conditio stroke and heat exhaustion is that in exhaustion the heat exhaustion. disturba body temperature remains regulati body. 1 about normal whereas in What are the causes of: stroke it is high. sweating heat stroke? tremendo heat exhaustion? . Heat exhaustion is the most ture what common condition resulting Individ Why does the body temperafrom exposure to excessive are more ture rise during heat heat. conditi stroke? What is the first aid for Symptoms heat stroke? headache ness; na temperat higher); ness; ar shock ar may foll What is the first aid for Heat exh heat exhaustion? resulti excessiv How are the treatments terized alike? How do they varying



differ?

collapse

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

Lyght, C.E. ed. The Merck manual of diagnosis and therapy. pp. 1171-1174.

Complete protection from ointments, creams, and lotions cannot be obtained because of the fact that these substances are washed away by perspiration and bathing.

Heat stroke or sun stroke is a between heat stroke and condition where there is a heat exhaustion. disturbance of the heatregulating mechanisms of the What are the causes of: body. There is a cessation of sweating which results in a heat stroke? tremendous rise in body temperaheat exhaustion? ture which might cause death. Individuals over the age of 40 Why does the body temperaare more susceptible to this ture rise during heat

stroke? What is the first aid for

heat stroke?

condition.

- Symptoms include flushed face; headache; rapid pulse; dizziness; nausea; very high temperature (108 degrees or higher); vomiting; unconsciousness; and convulsion. Profound shock and circulatory collapse may follow and lead to death.
- What is the first aid for Heat exhaustion is a condition heat exhaustion? resulting from exposure to excessive heat and is charac-How are the treatments terized by prostration and alike? How do they varying degrees of circulatory differ? collapse.

The distinction between sun Have the class distinguish stroke and heat exhaustion is that in exhaustion the body temperature remains about normal whereas in stroke it is high.

Heat exhaustion is the most common condition resulting from exposure to excessive heat.


MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SU
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Frostbite is injury to tissues resulting from freezing.	Define frostbite. What causes frostbite?	Frost to col
	List situations where	cold v
Frostbite is similar to a	frostbite is most likely	tight
burn in that cells and	to occur. Include every-	ute to
destroyed.	day activities, sports, occupations, etc.	ears, are mo
Frosthite can occur with-	Discuss come of the min	People
out a person being aware	conceptions about frost-	hever
of it.	bite, its care and after effects.	prone
		Frost
		and nu
		yellow
		folt of
		freeze
		Superf
		may re
	What is a chilblain? How	A chil
	does it compare with	mation
	frosthito?	****
	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS Frostbite is injury to tissues resulting from freezing. Frostbite is similar to a burn in that cells and tissues have been destroyed. Frostbite can occur with- out a person being aware of it.	 MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS Frostbite is injury to tissues resulting from freezing. Frostbite is similar to a burn in that cells and tissues have been destroyed. Frostbite can occur with- out a person being aware of it. Mat is a chilblain? How does it compare with

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MAJOR UNDERSTANDINGS AND SUGGESTED TEACHING AIDS SUPPLEMENTARY INFORMATION FUNDAMENTAL CONCEPTS AND LEARNING ACTIVITIES FOR TEACHERS The symptoms of heat exhaustion include dizziness; faintness; nausea; weakness; rapid pulse; pale, cool, and moist skin; sweating is profuse which causes salt depletion and dehydration; shallow breathing; low blood pressure; slight elevation of body temperature. Frostbite is injury to Define frostbite. What Frostbite is caused by exposure tissues resulting from causes frostbite? to cold, especially moist cold. freezing. Long periods of inactivity in cold weather or while wearing List situations where Frostbite is similar to a frostbite is most likely tight and wet clothing contribburn in that cells and to occur. Include everyute to frostbite. The nose, tissues have been day activities, sports, ears, cheeks, fingers, and toes destroyed. occupations, etc. are most frequently affected. People with poor circulation or Frostbite can occur with-Discuss some of the misthose who have consumed out a person being aware conceptions about frostbeve. age alcohol are more of it. bite, its care and after prone to frostbite. effects. Frostbitten parts become cold and numb and take on a gravish yellow or white color. A painful tingling sensation may be felt as the part begins to freeze. Blisters may develop. Superficial or deep gangrene may result. What is a chilblain? How A chilblain consists of inflamdoes it compare with mation and swelling of the feet, frostbite? toes, or fingers caused by

cold. Pain may also be present.

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OUTLINE OF CONT	MAJOR UNDERSTANDINGS AND ENT FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPL
	Extreme care must be taken when thawing out frozen tissues or else additional damage will result.	After discussing all of the topics under burns and other conditions caused by abnormal temperatures make up skits involving first aid emergencies that deal with these injuries. Skits can be written.	The pers from the as soon tissues gently a tissue s nor shou applied. be immer maintain 103 to J Damaged tected f drinks m victim. Read:
			Americ First
			Cole, First mæncge
			Hender medica
			Lyght, manual therap
IV. Foreign Substan in Body Opening	ces Dirt, food, and other sub- s stances may accidentally get lodged in the: . eye . ear . nose	List the body openings where foreign objects may enter.	Frequent may resu they ent Occasion of the n its loca emergenc



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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

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Extreme care must be taken when thawing out frozen tissues or else additional damage will result. SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

After discussing all of the topics under burns and other conditions caused by abnormal temperatures make up skits involving first aid emergencies that deal with these injuries. Skits can be written.

SUPPLEMENTARY INFORMATION FOR TEACHERS

The person should be removed from the freezing temperatures as soon as possible. The tissues should be rewarmed as gently as possible, thawing tissue should never be massaged nor should heat be directly applied. Frozen part: should be immersed in water which is maintained at a temperature of 103 to 107.5 degrees Fahrenheit. Damaged tissue should be protected from infection. Hot drinks may be given to the victim.

Read: American National Red Cross. First aid textbook. pp. 82-84.

Cole, W.H. & Puestow, C.B. First aid: diagnosis and management. pp. 132-134.

Henderson, John. Emergency medical guide. pp. 219-222.

Lyght, C.E. ed. The Merck manual of diagnosis and therapy. pp. 238-240.

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Frequently foreign substances may result in discomfort when they enter body openings. Occasionally, however, because of the nature of the object or its location, it may create an emergency situation requiring first aid.

Dirt, food, and other substances may accidentally get lodged in the:

- . eye
- . ear
- . nose



enter.

List the body openings

where foreign objects may

OUTLINE OF CONTENT

MAJCR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

A. In the eye

The eye is an extremely delicate organ.

If the first aider is in

doubt about removing the

further injury, he should

cover the eye by placing

a sterile gauze over the

closed eye and bandage it

Chemical substances in the

Flush the eye with clean

chemicals should get into

water if irritating

eye may be a serious threat

in place.

to vision.

the eye.

object without causing

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

What protective mechanisms does the eye have to help prevent objects from entering?

How does the eye react to foreign substances to remove them?

Demonstrate the proper technique for removing foreign objects from the eye.

List the steps to be taken in removing an object from the eye.

Discuss the circumstances in which the first aider should not attempt to remove objects from the eye. What procedure should the first aider follow in this event?

Discuss the circumstances under which chemicals may splash into the eyes.

List the kinds of chemicals commonly found at home or school which could be irritating to the eyes.

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

The eye is an extremely delicate organ.

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SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

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List the steps to be taken in removing an object from the eye.

Discuss the circumstances in which the first aider should not attempt to remove objects from the eye. What procedure should the first aider follow in this event?

Discuss the circumstances under which chemicals may splash into the eyes.

List the kinds of chemicals commonly found at home or school which could be irritating to the eyes.

SUPPLEMENTARY INFORMATION FOR TEACHERS

Specks on the lower lid can easily be seen and removed with moistened gauze or cotton. If the foreign body is on the upper lid, it can sometimes be removed by drawing the upper lid down over the lower lid and then looking up, down, left, and to the right and blowing the nose gently.

Another way in which the foreign object may be removed from the upper lid is to grasp the eyelash gently and turn the lid back over a cotton swab. If the speck is seen, it can be easily removed with a cotton swab.

If the foreign body is imbedded in the eyeball, a dressing should be placed over the closed eye and the person taken to a physician.

Read:

American National Red Cross. First aid textbook. pp. 93-94, 170-172.

Cole, W.H. & Puestow, C.B. First aid: diagnosis and and management. pp. 84-85.

Henderson, John. Emergency medical guide. pp. 73-75.



OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	e S
			Ly ma tł
		In which occupations is this most likely to occur?	Eye occu acio
		What precautions are taken by schools to protect students from irritating chemicals? [Industrial arts - home economics - physical education - chemistry - business education]	corr Many home to 1 othe Flus quar cons
B. In the ear	Extreme care must be taken when removing objects from the ears because of the danger of damaging the eardrum and causing infection.	 Discuss and demonstrate how foreign objects should be removed from the ear. What are the first aid procedures? What kinds of care should be taken to avoid further injury? 	Beac fore put A dr or b the allo obje oil. this prob
C. In the nose	Children frequently place objects in the nose. Insects may get lodged in the nose.	List the kinds of objects which are most likely to become lodged in the nose. Discuss and demonstrate how these objects may be removed.	The gent If t dis: be o

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
		Lyght, C.E. ed. The Merck manual of diagnosis and therapy. pp. 486-487.
	In which occupations is this most likely to occur? What precautions are taken by schools to protect students from irritating chemicals? [Industrial arts - home economics - physical education -	Eye burns involving chemicals occur in many industries where acids, alkalies, and other corrosive chemicals are used. Many chemicals found in the home can produce serious burns to the eyes; e.g., ammonia and other cleaners.
	chemistry - business education]	Flush the eye with ample quantities of water first - consult a physician immediately.
Extreme care must be taken when removing objects from the ears because of the danger of damaging the eardrum and causing infection.	 Discuss and demonstrate how foreign objects should be removed from the ear. What are the first aid procedures? What kinds of care should be taken to avoid further injury? 	Beads, seeds, stones, and other foreign objects are frequently put into the ears by children. A drop or two of mineral, olive, or baby oil may be placed in the ear. Tilt the head to allow the oil to run out. The object will flow out with the oil. Consult a physician if this method fails. Do not probe into the ear for an object.
Children frequently place objects in the nose. Insects may get lodged in the nose.	List the kinds of objects which are most likely to become lodged in the nose. Discuss and demonstrate how these objects may be removed.	The victim should blow the nose gently to dislodge the object. If the object is not readily dislodged, a physician should be consulted.



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OUTLINE OF CONTENT

V. Other Common Emergencies

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

A first aider should be prepared to handle most common medical emergencies that may occur in his ipresence.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

Elicit from students the common medical emergencies that occur in the home, school, playground, and at work.

Show and discuss the filmstrip on Nursing care of the sick and injured which is used with lesson number 9 of the Medical Self Help Training program. See page 34.

A. Convulsions in children

1. Causes

The occurrence of con-
vulsions is indicative of
some underlying medicalDefine convulsive reaction. A convulsion
a cerebr
List the causes of con-
vulsive reactions.A convulsion
a cerebr
terized to a cerebr
terized to a cerebr
a cerebr
terized to a cerebr
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terized to a cerebrsome underlying medical
problem and is not a
disease in itself.List the causes of con-
vulsive reactions.involvin
of consc

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

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A first aider should be prepared to handle most common medical emergencies that may occur in his presence.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

Elicit from students the common medical emergencies that occur in the home, school, playground, and at work.

Show and discuss the filmstrip on Nursing care of the sick and injured which is used with lesson number 9 of the Medical Self Help Training program. See page 34.

SUPPLEMENTARY INFORMATION FOR TEACHERS

The occurrence of convulsions is indicative of some underlying medical problem and is not a disease in itself.

List the causes of convulsive reactions.

Define convulsive reaction. A convulsion is a disorder of a cerebral function, characterized by recurrent attacks involving changes in the state of consciousness, motor activity, or sensory phenomena, sudden in onset and brief in duration. They may appear at the onset of acute infectious diseases such as scarlet fever, whooping cough, tonsillitis, and pneumonia. Other causes include gastrointestinal upsets, epilepsy, low blood calcium, congenital defects, concussion, poisoning from such substances as lead, or lack of oxygen. Convulsions frequently occur in children as a result of a high body temperature.



GUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPP
	Muscle spasms and twitching of varying degrees of severity may be present.	Discuss the symptoms of convulsions in children.	Convuls for sev minutes a stupo fall as
2. First aid	The major objective is to protect the child from injury.	Discuss the first aid for convulsions.	The chi positio will no Clothin If he vo be turn
			A physic as soon
B. Epilepsy	Epilepsy is probably the most common condition in which convulsions are seen. Epilepsy is a condition characterized by con- vulsive reactions.	Discuss the nature of epileptic convulsions.	"Epileps rise to of brain nature, usually often ad bance in involunt tions." The Merd and then New Jers Dohme Re 1966. H
			Epilepsy cerebral resulted or other

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Muscle spasms and twitching of varying degrees of severity may be present.

The major objective is to protect the child from injury.

AND LEARNING ACTIVITIES

SUGGESTED TEACHING AIDS

Discuss the symptoms of convulsions in children.

Discuss the first aid for convulsions.

Epilepsy is probably the most common condition in which convulsions are seen.

Epilepsy is a condition characterized by convulsive reactions. Discuss the nature of epileptic convulsions.

SUPPLEMENTARY INFORMATION FOR TEACHERS

Convulsive reactions may last for several seconds to a few minutes. The child may be in a stuporous condition or may fall asleep.

The child should be put in a position and location where he will not injure himself. Clothing should be loosened. If he vomits, his head should be turned to the side.

A physician should be called as soon as possible.

"Epilepsy is a condition giving rise to periodic disturbances of brain function, diverse in nature, abrupt in onset, usually brief in duration, and often accompanied by a disturbance in consciousness and involuntary muscular contractions." Lyght, C.E. ed. The Merck manual of diagnosis and therapy. 11th ed. Rahway, New Jersey. Merck, Sharp & Dohme Research Laboratories. 1966. p. 1008.

Epilepsy may be a result of a cerebral lesion which may have resulted from a birth trauma or other injury.

OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPI
	Protecting the victim from injury is the primary objective of first aid in epilepsy.	Discuss and demonstrate first aid procedures for convulsions. What is the greatest danger to the epileptic?	First a prevent injurin placed vent th bitten should around injury help sh
			Read: Clarl eds. pp. 3
C. Head injuries in children	Head injuries are one of the most common emergencies of childhood.Most head injuries occur from falls.Head injuries should never be neglected.	What are some causes of head injuries in children? Why do they occur? List the first aid pro- cedures for head injuress.	Frequer don't i organic and the a peric semicor of the unequal The chi flat, w Medical as quic
D. Acute gastric indigestion	Acute gastric indigestion may be a sign of an infectious disease or appendicitis. Appendicitis should always be suspected.	What is meant by gastric disturbance? Is it always "indiges- tion"?	Gastric the res . eati rap . imp choi . emo eat

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MAJOR UNDERSTANDINGS AND SUGGESTED TEACHING AIDS SUPPLEMENTARY INFORMATION FUNDAMENTAL CONCEPTS AND LEARNING ACTIVITIES FOR TEACHERS First aid is aimed primarily at Protecting the victim from Discuss and demonstrate injury is the primary first aid procedures for preventing the individual from objective of first aid in convulsions. injuring himself. A gag may be epilepsy. placed between the teeth to pre-What is the greatest vent the tongue from being danger to the epileptic? bitten. Constrictive clothing should be loosened and objects around him removed so that injury will not result. Medical help should be obtained. Read: Clark, R.L. & Cumley, R.W. eds. The book of health. pp. 354-355. Head injuries are one of What are some causes of Frequently, simple concussions the nost common emergencies head injuries in children? don't result in permanent of childhood. organic damage to the brain and the child will recover after Why do they occur? Most head injuries occur a period of unconsciousness or from falls. List the first aid prosemiconsciousness. The pupils cedures for head injuress. of the eyes frequently are Head injuries should never unequal in size. be neglected. The child should be kept lying flat, warm, and comfortable. Medical aid should be obtained as quickly as possible. Acute gastric indigestion Gastric disturbances may be What is meant by gastric may be a sign of an disturbance? the result of: infectious disease or eating too much or too appendicitis. Is it always "indigesrapidly tion"? improper or inadequate Appendicitis should always choice of food be suspected. emotional upset during

eating

OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLE
			. excess . eating fat co
	Any abdominal distress which lasts longer than two hours should be referred to a physician.	List and discuss the first aid for gastric distur- bances.	See Apper pertainin temperatu
		Eating and drinking should <u>Do not place hot packs on</u> laxative, enema, or other	be avoided the abdomer medication
E. Dizziness	Dizziness is a disturbed sense of space relationship with a sensation of unsteadiness. Dizziness may b a symptom of some other d sturbance. Although dizziness may in itself not be serious, the person may cause other injuries to himself as a result of being dizzy.	 Have students describe dizziness. List the different kinds of sensations students have experienced. Make a list of possible causes of dizziness. Why is dizziness likely to be dangerous? Discuss first aid procedures for dizziness. 	"Dizzines which the subjective ment in s moving an resulting equilibri The Merch and there New Jerse Dohme Res 1966. pp It become advancing causes in bances, to bances, b infectiou

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
		 excessive smoking or drinking eating foods with too high a fat content
Any abdominal distress which lasts longer than two hours should be referred to a physician.	List and discuss the first aid for gastric distur- bances.	See Appendix A for information pertaining to taking body temperature.
	Eating and drinking should <u>Do not place hot packs on t</u> laxative, enema, or other m	be avoided during this time. the abdomen. <u>Do not</u> take a medication.
Dizziness is a disturbed sense of space relationship with a sensation of unsteadiness. Dizziness may be a symptom of some other disturbance. Although dizziness may in itself not be serious, the person may cause other injuries to himself as a result of being dizzy.	 Have students describe dizziness. List the different kinds of sensations students have experienced. Make a list of possible causes of dizziness. Why is dizziness likely to be dangerous? 	"Dizziness is a disturbance in which the individual has a subjective impression of move- ment in space, or of objects moving around him, with resulting tendency to loss of eavilibrium!" Lyght, C.E. ed. [] Merck manual of diagnosis and therapy. 11th ed. Rahway, New Jersey. Merck, Sharp & Dohme Research Laboratories. 1966. pp. 1025-1026.
	Discuss first aid pro- cedures for dizziness.	It becomes more frequent with advancing age. There are many causes including ear distur- bances, the effects of drugs, motion sickness, eye distur- bances, cardiovascular distur- bances, blood problems, infectious disease, and tumors.

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OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING ÀIDS AND LEARNING ACTIVITIES	SUPI
			Have th rest. pass qu be obt medical
F. Unconsciousness	Unconsciousness is a state of insensibility with no sensory impressions. There are many and varied causes of unconsciousness.	List the causes of uncon- sciousness. Why are "red," "white," and "blue" important to the first ailer in deal- ing with unconsciousness? List and discuss the first aid procedures for each of the three major kinds of unconsciousness.	In "red person" face ad pulse. apoples alcoho First a down; m apply o head; l In "wh chief s and a w results injury keep th positic lower to body.
	Unconsciousness must always be considered a serious condition and the victim should be examined by a physician to deter- mine the cause.	See Appendices B and C for information regarding how to take pulse and respiration.	In "blu persons found s obstruc heart s poisons artific breath victim warm.

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPLEMENTARY INFORMATION FOR TEACHERS
		Have the person lie down and rest. If the attack does not pass quickly, medical aid should be obtained. A subsequent medical check-up is imperative.
Unconsciousness is a state of insensibility with no sensory impressions. There are many and varied causes of unconsciousness.	List the causes of uncon- sciousness. Why are "red," "white," and "blue" important to the first aider in deal- ing with unconsciousness? List and discuss the first aid procedures for each of the three major winds of "mconsciousness.	In "red" unconsciousness, the purson has a red or flushed face accompanied by a strong pulse. It usually occurs in apoplexy, sun stroke, chronic alcoholism, and diabetes. First aid: lay the victim down; raise his head slightly; apply cold applications to his head; keep him warm and quiet. In "white" unconsciousness the chief symptoms are a pale face and a weak pulse. It frequently results from severe he wrhage, injury, or shock. First aid: keep the victim in a lying
		position with his head slightly lower than the rest of his body. Keep him we m and quiet.
Unconsciousness must always be considered a serious condition and the victim should be examined by a physician to deter- mine the cause.	See Appendices 8 and C for information regarding how to take pulse and respiration.	In "blue" unconsciousness the persons skin is blue. It is found in cases of respiratory obstruction (asphyxia), acute heart attack, and cases of poisoning. First aid: apply artificial respiration if breathing has ceased. Keep the victim in a lying position and warm.

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OUTLINE OF CONTENT	MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS	SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES	SUPPL
G. Motion sickness	Motion sickness is more commonly referred to as:	List and discuss the causes of motion sickness.	Most lik sickness
	 seasickness air sickness space sickness car sickness Motion sickness is caused by exposure to unusual environmental forces on the body. These forces do not affect all people equally. Some people have never experi- enced motion sickness. 	What part does the psychological make-up of the person play relative to motion sickness? Why is an understanding of motion sickness important? What is the prevention for motion sickness? Have students study and report to class on how the space program is dealing with motion sickness, weightlessness, and related problems.	ments of head is more that neously. strong si circular which pla in the main Nausea and symptoms general of may be part Prevention is easies than treat appears. available prescript relieve of sickness
H. Toothache	A toothache results when the pulp of the tooth becomes irritated. A toothache is usually a symptom of tooth decay or possible infection and all cases should be seen by a dentist as soon as possible.	Have class list some of the causes of a toothache. Refer to Strand I, Dental Health.	"A tooth patholog with grad disinteg and dent involvem the pulp Lyght, C manual o llth ed. Merck, SI Laborato 377.



MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

Motion sickness is more commonly referred to as:

- . seasickness
- . air sickness
- . space sickness
- . car sickness

Motion sickness is caused by exposure to unusual environmental forces on the body.

These forces do not affect all people equally. Some people have never experienced motion sickness.

A toothache results when the pulp of the tooth becomes irritated.

A toothache is usually a symptom of tooth decay or possible infection and all cases should be seen by a dentist as soon as possible.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

List and discuss the causes of motion sickness.

What part does the psychological make-up of the person play relative to motion sickness?

Why is an understanding of motion sickness important?

What is the prevention for motion sickness?

Have students study and report to class on how the space program is dealing with motion sickness, weightlessness, and related problems.

Have class list some of the causes of a toothache.

Refer to Strand I, Dental Health.

SUPPLEMENTARY INFORMATION FOR TEACHERS

Most likely to induce motion sickness are rotational movements of the body in which the head is subject to rotation in more than one plane simultaneously. Motion produces strong stimuli upon the semicircular canals of the ear which play an important role in the maintenance of balance.

Nausea and vomiting are primary symptoms. Dizziness, headache, general discomfort, and fatigue may be present.

Prevention of motion sickness is easier and more worthwhile than treatment after nausea appears. There are medicines available on a physician's prescription which may help to relieve or prevent motion sickness.

"A toothache results from a pathological process associated with gradual dissolution and disintegration of the enamel and dentin, with eventual involvement, if untreated, of the pulp of the affected tooth." Lyght, C.E. ed. The Merck manual of diagnosis and therapy. 11th ed. Rahway, New Jersey. Merck, Sharp & Dohme Research Laboratories. 1966. pp. 371-377.



MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS AND LEARNING ACTIVITIES

OUTLINE OF CONTENT

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Since a sympton problen to seek a quali



MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

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SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

The acid produced by bacteria and yeasts found in the mouth can initiate the tooth decay. Poor dental hygiene is an important contributing factor.

Since a toothache is a serious symptom of a dental health problem, first aid should be to seek proper treatment from a qualified dentist.



APPENDIX A

Measuring Body Temperature

Body temperature may vary a degree or so in a perfectly well person, but may be slight disorders as appendicitis. Therefore, everyone should know how to take a person's temperat sistent elevations should be reported to a physician.

Normal body temperature is 98.6° F. by mouth and about 1 degree higher by rectum. By about 97.4° F. There are different kinds of thermometers. An oral thermometer has a long comparison to the short, blunt bulb of a rectal thermometer. The thermometer should always using it to make sure it has been shaken down. It should be given several sharp, downward wrist to force the liquid through the constriction into the bulb.

The thermometer should be left in place for 3 minutes when taking an oral or rectal to 10 minutes when taking it under the armpit (making sure to hold the arm close to the body). temperature by rectum, the bulb should be lubricated and gently inserted about l_2^1 -inches.

APPENDIX B

Counting the Human Pulse

The pulse varies with normal everyday activities. However, it may go up with fever an become weak as in hemorrhage or shock. Therefore, a first aider should know how to take a

The pulse rate for infants and children ranges from 32-180 beats per minute. For adul generally ranges between 60-80. It is usually somewhat higher for women than it is for men most often taken at the wrist joint. Two or more fingers should be placed over the pulse a taking the pulse should not place his thumb over the victim's pulse because he may be feel beat.



APPENDIX A

Measuring Body Temperature

vary a degree or so in a perfectly well person, but may be slightly elevated in such. Therefore, everyone should know how to take a person's temperature and that perbe reported to a physician.

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APPENDIX B

Counting the Human Pulse

n normal everyday activities. However, it may go up with fever and illness or may age or shock. Therefore, a first aider should know how to take a pulse.

hfants and children ranges from 82-180 beats per minute. For adults, the pulse rate 60-80. It is usually somewhat higher for women than it is for men. The pulse is rist joint. Two or more fingers should be placed over the pulse area. The person of place his thumb over the victim's pulse because he may be feeling his own pulse



APPENDIX C

Determining the Rate of Respiration

The respiratory rate also varies with one's daily activities. However, it may go up of fever or severe hemorrhage, or may even stop, as in asphyxia. For this reason, the fi how to take respirations.

The normal respiration rate for adults is about 18-20 breaths per minute and for chi 40-45 breaths per minute. Respirations are counted by observing the number of times the in 1 minute. Each respiration consists of a complete breathing cycle consisting of one r one fall (expiration) of the chest wall. The measuring of respirations can be done $_{/}$ ho arm across his chest and feeling for the elevation of his chest each time he breathes.

APPENDIX D

Bandages

Some injuries require support or need to have dressings held in place. Therefore, a know how to make and use various bandages.

The bandages most frequently used are the triangular (sometimes folded to form a cra (gauze, elastic, or muslin). The triangular is made from a 40-inch piece of old sheeting should be a part of the first aid kit. It can be used for slings or to hold dressings in <u>Red Cross Manual</u> describes many ways to use it. Folded as a cravat (or using any improvi can be used to control hemorrhage, hold dressings in place, or tie items together.

Roller bandages come in different materials and different sizes (from 12-inch to 40sterile) it can be used as both a dressing and bandage. As elastic it can be used as sup types of rolled bandages are circular, recurrent, figure eight, and spiral. A descriptio appears in the American Red Cross First Aid Manual.



APPENDIX C

Determining the Rate of Respiration

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MULTIMEDIA RESOURCES

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- One minute to three. Local Chapter of the American National Red Cross. 26 min. black & with the role of the home nurse in maintaining health, observing symptoms of illness, an nursing care.
- Passport to tomorrow. Local Chapter of the American National Red Cross. 28 min. black 8 with modern medicines and supplies, and how to give medicines according to the doctor's
- Prairie schooner, space age model. Local Chapter of the American National Red Cross. 22 Film deals with the role of the home nurse in helping to prevent the spread of disease, grooming of the bed patient.
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Additional filmstrips are available in the teaching kits made available by the United S Defense in conjunction with the United States Department of Health, Education and Welfa Materials Laboratories, Inc. of New York. These kits are described below.

Teaching Kits

The United States Department of Defense, in conjunction with the United States Departm and Welfare, has prepared a Medical Self-Help Instructor's Kit. This kit consists of containing all the necessary materials in basic health survival principles. The kit guide; a course introduction; eleven lesson play books, the reference manual *Family g care;* eleven 35 mm. filmstrips; and examination booklets and grading templates. The that would be valuable in first aid instruction for grades 7, 8, and 9 would include Bandaging and Nursing Care of the Sick and Injured. There is also a set of eleven 16 available, one for each lesson. In addition, there is a 13½ minute color film narrat "If Disaster Strikes," which explains the program and shows the value of Medical Self New York State Department of Health or the New York State Civil Defense Commission sh how to get the Medical Self-Help Training Kits and student supplies which are availab

The Instructional Materials Laboratories, Inc., located at 18 East 41 Street, New Yor available a programmed instructional School First Aid Course that was developed by Jo Each classroom unit kit contains 30 student programmed text manuals; 1 classroom demo first aid products; 1 full color filmstrip with complete teacher script and test ques programmed text guide; 30 progress test booklets; 30 safety checklists for home prepa completion cards; and 2 achievement certificates. The cost for this kit is approxima sets (to supplement classes larger than 30) containing materials for 10 students are approximately \$4.00.

Flip Charts

- Flip Chart for the Self-Help and Neighbor Help for the Injured Course. A 102-page, 1 chart in color which is used as a teaching aid for the Self-Help course. It is bou be used as a stand on a desk or a table. It is available in English and Spanish. 1963 by the New York State Department of Health for the New York State Civil Defens information write: The New York State Department of Health, 84 Holland Avenue, Alb
- Flip Chart for the Training Course for Medical Aides in Aid Stations. A 100-page, 18 chart in color which is used with the text *Guide for medical aids in aid stations*. covers which can be used as a stand on a desk or a table. This chart was prepared 1964 by the New York State Department of Health for the New York State Civil Defens information write: The New York State Department of Health, 84 Holland Avenue, Alb



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laterials Laboratories, Inc., located at 18 East 41 Street, New York, N.Y. 10017, has med instructional School First Aid Course that was developed by Johnson and Johnson. kit contains 30 student programmed text manuals; 1 classroom demonstration k't of 1 full color filmstrip with complete teacher script and test questions; 1 teacher's lde; 30 progress test booklets; 30 safety checklists for home preparedness; 30 course and 2 achievement certificates. The cost for this kit is approximately \$12.00. Adjunct classes larger than 30) containing materials for 10 students are available for

<u>Self-Help and Neighbor Help for the Injured Cc</u> se. A 102-page, 18¹/₂-inch x 28¹/₂-inch ich is used as a teaching aid for the Self-Help course. It is bound in covers which can id on a desk or a table. It is available in English and Spanish. It was prepared ir fork State Department of Health for the New York State Civil Defense Commission. For the New York State Department of Health, 84 Holland Avenue, Albany, New York 12208.

Training Course for Medical Aides in Aid Stations. A 100-page, 18¹/₂-inch x 28¹/₂-inch ich is used with the text *Guide for medical aids in aid stations*. It is bound in be used as a stand on a desk or a table. This chart was prepared as a teaching aid in ork State Department of Health for the New York State Civil Defense Commission. For : The New York State Department of Health, 84 Holland Avenue, Albany, New York 12208.



Mannequins

- <u>Resusci-Anne and Resusci-Andy</u>. These are life-size mannequins that are used in resuscit however, they can be used in other phases of first aid. They are available from the G Equipment Company, 37 East 21st Street, Linden, New Jersey 07037, or the Laerdal Medi 136 Marbledale Road, Tuckahoe, New York 10707. The approximate cost of a mannequin is
- Respertrain. A half-bodied mannequin for use in resuscitation training. Available from Laboratories, Inc., 729 Canal Street, Stamford, Connecticut. The approximate cost is \$
- Resusa-Kate. A 24-inch full-bodied mannequin of a child for use in resuscitation trainin Simulaids, Woodstock, New York 12498. The approximate cost is \$22.50.

Injury Simulation Kits

Injury simulations kits containing make up that can be used to simulate injuries are avai Simulaids, Woodstock, New York 12498, and the Alderson Research Laboratories, Inc., 7 Stamford, Connecticut. Many different kinds of kits are available. Kits range in pric \$250.00.



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susci-Andy. These are life-size mannequins that are used in resuscitation training; be used in other phases of first aid. They are available from the Guardian Safety , 37 East 21st Street, Linden, New Jersey 07037, or the Laerdal Medical Corporation, ad, Tuckahoe, New York 10707. The approximate cost of a mannequin is \$198.00.

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