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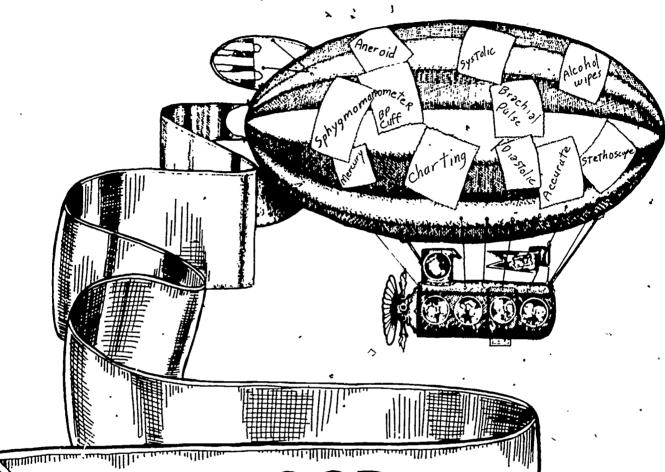
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ABSTRACT

This instructor's packet accompanies the learning activity package (LAP) on blood pressure. Contents included in the packet are a time sheet, suggested uses for the LAP, an instruction sheet, final LAP reviews, a final LAP review answer key, a pupil performance checklist, a handout on blood pressure, and student completion cards to issue to students as an indicator of successful LAP completion. (YLB)



BLOOD PRESSURE

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Wilson Riles, Superintendent of Public Instruction
Sacramento, 1982

BLOOD PRESSURE

Instructor's Packet

PREPARED BY-KIRSTEN HIME, RN INSTRUCTOR, RIVERSIDE ROP This learning activity package, which was funded under Public Law 94-482 and Public Law 95-40, was prepared and published by the California State Department of Education, 721 Capitol Mall, Sacramento, CA 95814, and distributed under the provisions of the Library Distribution Act.

1982

ERIC

Instructors dream of having the time and opportunity to enhance their teaching techniques by developing supportive instructional materials. A first step toward fulfilling this dream has been taken with the completion and presentation of this year-long project. Twelve learning activity packages (LAPs) have been developed for use in health occupations programs. These LAPs represent many hours of composing, compiling, pasting, cutting, editing, and revising by the four consultant writers. Their dedication, individuality, and expertise are reflected in the final products. Topics were chosen for development by the task force which were versatile and could be utilized by most health occupation instructors. It is the goal of all of the members of the task force that you as a health career educator will utilize these LAPs in the various ways suggested and perchance be motivated to develop more topics of your own following a similar format.

Without the cooperation, sharing, caring, and quality support of the following people and agencies, this project would not have been successful; the

warmest of "thank you's" to:

The Project Coordinator, Vivian Bender
The Consultant Authors, Kris Hime, Carolyn Lee, Lillian Runge, and

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Superintendent

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INSTRUCTOR'S PACKET

A LAP IS AN INDIVIDUALIZED LEARNING ACTIVITY PACKAGE TO ASSIST THE STUDENT TO ACQUIRE KNOWLEDGE FOR A SPECIFIC TOPIC.

INCLUDED IN THIS PACKET ARE THE FOLLOWING:

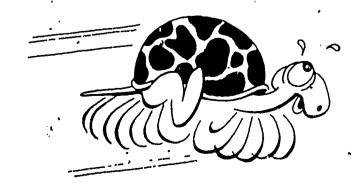
- 1. SUGGESTED USES FOR LAP
- 2. Instruction sheet .
- 3. LAP REVIEW
- 4. LAP REVIEW KEY
- 5. SUGGESTED ACTIVITY LIST
- 6. ADDITIONAL RESOURCES
- 7. STUDENT COMPLETION CARDS
- 8. STUDENT WORK SHEET

TIME REQUIRED WILL VARY WITH EACH STUDENT, BUT THE INSTRUCTOR

SHOULD ALLOW AT LEAST _____ MINUTES FOR THE STUDENT TO

COMPLETE THIS LAP.





SUGGESTED USES FOR THE MATERIALS INCLUDED IN THIS LAP ARE LISTED

BELOW:

REVIEW

EVALUATION

SPIRIT MASTERS

XEROX

HANDOUTS

REMEDIAL WORK

TOPIC CHALLENGE FOR STUDENT

OVERHEADS

DITTOS

POSTERS

MAKE-UP WORK

CLASSROOM ACTIVITIES





- 1. GIVE EACH STUDENT A LAP.
- 2. HAVE EACH STUDENT READ THE LAP AND COMPLETE THE REVIEW SECTIONS.

THE STUDENT MUST GET EVERY QUESTION IN THE REVIEW SECTION CORRECT BEFORE CONTINUING ON TO THE NEXT TOPIC. IF ALL OF THE ANSWERS ARE NOT CORRECT, REPEAT THE SECTION OR TOPIC.

- 3. WHEN THE LAP IS COMPLETED, THE LAP AND WORK SHEETS SHOULD BE TURNED IN TO THE INSTRUCTOR, AND THE STUDENT SHOULD BE GIVEN THE FINAL LAP.

 REVIEW.
- 4. AFTER ALL* OF THE FINAL LAP REVIEW QUESTIONS ARE ANSWERED CORRECTLY, THE STUDENT WILL RECEIVE A COMPLETION CARD. COMPLETION CARDS ARE INCLUDED IN THIS PACKET.

3,

5. THE TIME FOR COMPLETING THE LAP WILL VARY WITH EACH STUDENT.

*If the student does not answer all of the questions correctly, return the LAP to the student for further review.



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CONTRACTOR OF THE PARTY OF THE	

I. COMPLETE THE FOLLOWING:

1. Define the follo	OWING I	ERMS
---------------------	---------	------

- A, BLOOD PRESSURE
- B. SYSTOLIC PRESSURE _____
- C. DIASTOLIC PRESSURE
- 2. THE EQUIPMENT NEEDED TO TAKE BLOOD PRESSURE IS AS FOLLOWS:
 - Α.
 - В.
 - С.
- [©] D
 - Ε,
- 3. LIST TWO FACTORS WHICH CAN INCREASE BLOOD PRESSURE.

4. LIST TWO FACTORS WHICH CAN DECREASE BLOOD PRESSURE.

II. TRUE AND FALSE:

- 1. WHEN RECORDING THE BP, YOU DO NOT HAVE TO NOTE THE TIME.
- 2. Notify your supervisor immediately when you obtain an abnormal reading.
- 3. ACCURACY IS NOT IMPORTANT WHEN TAKING A BLOOD PRESSURE.



T	1	Ι.	COMPLETE	THE	FOLLOWING:	
1	1		COMPLETE	1111	I OLLOWING	

- 1. THE ARTERY, WHICH YOU LOCATE BEFORE PLACING THE DIAPHRAGM OF THE STETHOSCOPE, IS CALLED THE ______ ARTERY.
- 2. THE TOP NUMBER IS REFERRED TO AS THE ______ PRESSURE AND THE BOTTOM NUMBER IS CALLED THE ______ PRESSURE
- IV. Choose the BEST ANSWER.
 - 1. Any unusual blood pressure reading should be:
 - A. CHARTED IMMEDIATELY
 - B. REPORTED IMMEDIATELY
 - C. REPORTED IMMEDIATELY TO YOUR SUPERVISOR
 - D. REPORTED TO THE DOCTOR
 - 2. WHICH OF THE FOLLOWING MAY CAUSE HIGH BLOOD PRESSURE?
 - ·A. STRESS
 - B. IMPROPER DIET
 - c. Loss of elasticity of blood vessels
 - D. ALL COULD BE FACTORS
 - 3. WHEN IN DOUBT ABOUT YOUR READING OF A BLOOD PRESSURE, YOU SHOULD FIRST:
 - A. HAVE ANOTHER PERSON TAKE IT.
 - B. TELL THE NURSE YOU ARE UNSURE ABOUT YOUR READING.
 - C. DOUBLE CHECK YOUR FINDINGS.
 - D. Don'T SAY ANYTHING.



RETURN TO ...

FINAL LAP. ANSWER KEY

I. COMPLETE THE FOLLOWING:

- 1. A. BLOOD PRESSURE IS THE FORCE OF THE BLOOD PUSHING AGAINST THE WALLS OF THE BLOOD VESSELS.
 - B. SYSTOLIC PRESSURE IS THE GREATEST FORCE EXERTED ON THE WALLS OF THE ARTERY BY THE HEARTBEAT.
 - C. DIASTOLIC PRESSURE IS THE LEAST FORCE EXERTED ON THE WALLS OF THE ARTERY BY THE HEARTBEAT.
- 2. A. SPHYGMOMANOMETER
 - B. STETHOSCOPE
 - C. ALCOHOL WIPE
 - D. PENCIL OR ₽EN
 - É, PAPER
- Loss of elasticity, age, eating, exercise, stimulants, emotional disturbance
- 4. HEMORRAGE, SHOCK, FASTING; DEPRESSANTS, QUIET EMOTIONS

II. TRUE AND FALSE

- 1. FALSE
- 2. True
- 3. FALSE

III. COMPLETE THE FOLLOWING:

- 1. BRACHIAL
- 2. Systolic, Diastolic
- IV. CHOOSE THE BEST ANSWER.
 - 1. B

8

2: D

3. C





PRACTICE TAKING BLOOD PRESSURE READINGS ON:

FELLOW STUDENTS

FRIENDS

VOLUNTEERS

PARENTS/FAMILY

COMPARE READINGS TAKEN WHILE STUDENT (PATIENT) IS:

- 1. LYING DOWN
- SITTING IN CHAIR
- AFTER ACTIVITY

(REMEMBER TO WRITE FINDINGS DOWN BEFORE YOU FORGET,)

USING OUTSIDE SOURCES, DESCRIBE BRIEFLY THREE CONDITIONS THAT CAUSE AN ABNORMAL DECREASE IN BLOOD PRESSURE.

USING OUTSIDE SOURCES, DESCRIBE BRIEFLY THREE CONDITIONS THAT CAUSE AN ABNORMAL INCREASE IN BLOOD PRESSURE.



PUPIL PERFORMANCE CHECKLIST

Name	 	 _ 10
DATE		

YES NO REMARKS

- 1. Washed HANDS
- 2. Assembled the following equipment:
 - A. PENCIL OR PEN
 - B. PAPER
 - C. ALCOHOL WIPE
 - D. STETHOSCOPE
 - E. SPHYGMOMANOMETER
- 3. EXPLAINED PROCEDURE TO PATIENT
- 4. Positioned patient comfortably, either Lying down in bed or sitting in a chair
- 5. SUPPORTED ARM CORRECTLY
- 6. ROLLED GOWN OR SHIRT SLEEVE ABOVE THE ELBOW OR ASKED PATIENT TO REMOVE SHIRT
- 7. WRAPPED CUFF SMOOTHLY AND SNUGLY
- 8. Wrapped cuff 1 to 2 inches above the ELBOW
- 9. CLEANED EARPIECES OF STETHOSCOPE WITH AN ALCOHOL WIPE
- 10. LOCATED THE BRACHIAL ARTERY WITH FINGERS
- 11. PLACED STETHOSCOPE DIRECTLY OVER ARTERY
- 12. PLACED STETHOSCOPE IN EARS
- 13. RELEASED THUMB VALVE GRADUALLY



YES NO REMARK

- 14. CLOSED THUMB VALVE AND INFLATED BALLOON TO AT LEAST 150 mm
- 15. HEARD SYSTOLIC PRESSURE
- 16. HEARD DIASTOLIC PRESSURE
- 17. RELEASED AIR IN CUFF AFTER HEARING DIASTOLIC PRESSURE
- 18. RECORDED BLOOD PRESSURE CORRECTLY
- 19. REMOVED CUFF AND EXPELLED AIR
- 20. FOLDED CUFF AND RETURNED TO CASE
- 21. CLEANED EARPIECES OF STETHOSCOPE WITH AN ALCOHOL WIPE

ADDITIONAL RESOURCES

BLOOD PRESSURE (FILMSTRIP)

TRAINEX, INC.

BLOOD PRESSURE HANDOUT (INCLUDED)

AMERICAN HEART ASSOCIATION

COMPLETION CARDS

STUDENT COMPLETION CARDS ARE PROVIDED FOR THE INSTRUCTOR TO

ISSUE TO THE STUDENTS AS AN INDICATOR OF SUCCESSFUL

COMPLETION OF THE LAP.

BLOOD PRESSURE

EQUIPMENT

OBTAIN FROM UNIT:

- 1. SPHYGMOMANOMETER
- 2. STETHOSCOPE
- 3. ALCOHOL WIPE

METHOD

KEY POINTS

PREPARING PATIENT

- 1. EXPLAIN THE PROCEDURE TO THE PATIENT.
- 2. Assist patient to a RECLINING OR SITTING POSITION WITH FOREARM SUPPORTED.
- 3. Expose ARM ABOVE ELBOW.

THERE WILL BE PRESSURE ON HIS OR HER ARM FOR A FEW SECONDS.

Use the Left arm whenever possible.

TAKING BLOOD PRESSURE

- 1. CLEAN THE EARPIECES OF THE STETHO-SCOPE AND TAKE THE EQUIPMENT TO THE ROOM.
- 2. Apply the cuff about 2 inches above the bend of the elbow.
- 4. PLACE THE STETHOSCOPE IN THE EARS.
- 5. CLOSE THE AIR VALVE AND PUMP AIR INTO CUFF UP TO $150_{\,\text{mm}}$ OF MERCURY AND LISTEN.

USE ALCOHOL WIPE.

ADJUST CUFF SO TUBES WILL NOT INTERFERE WITH STETHOSCOPE.

PLACE FINGERS OVER INNER ASPECT AT THE BEND, IN THE ELBOW.

HAVE EARPIECES FACING FORWARD.

PUMP AIR INTO CUFF TO 20mm OF MERCURY ABOVE WHERE REGULAR SOUNDS HEARD.

TAKING BLOOD PRESSURE (CONTINUED)

- 6. OPEN AIR VALVE GRADUALLY AND LISTEN CAREFULLY. NOTE THE FIRST REGULAR BEAT. THIS IS THE SYSTOLIC PRESSURE.
- 7. CONTINUE RELEASING AIR GRADUALLY AND NOTE THE NUMBER ON THE INDICATOR AT WHICH THE SOUND CHANGES TO A DULL MUFFLED BEAT. THIS IS THE DIASTOLIC PRESSURE.
- 8. Open the valve completely, releasing all the AIRPIN cuff.
- 98 REPEAT STEPS 3 THROUGH 8- TO RECHECK
- 10. REMOVE CUFF AND RETURN WITH STETHOSCOPE TO STORAGE AREA.

RELEASE AIR ABOUT 2-3 mm OF MERCURY PER SECOND.

WAIT AT LEAST FIFTEEN SECONDS SO BLOOD VESSELS WILL FILL.

CLEAN EARPIECES OF STETHOSCOPE AGAIN, AND PUT EQUIPMENT AWAY.

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YOUR VERY OWN WORK SHEET

NAME	16
DATE	

REVIEW I.

- 1. BOTH TYPES OF _____
- 2. NAMÉ THIS TYPE _____
- 3. NAME THIS TYPE _____

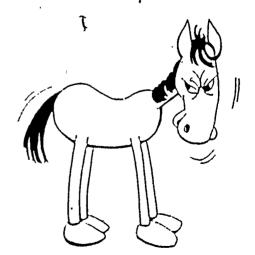
REVIEW II.

- 1. DIAPHRAGM OF STETHOSCOPE IS PLACED OVER _____
- 2. REMEMBER TO FEEL FOR THE _____ PULSE.
- 3. HEAR ANY SOUNDS? YES , NO

REVIEW III.

READ GAUGES

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



YOUR VERY OWN WORK SHEET



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This learning activity package is one of a series of 12 titles relating to health careers that are available from the California State Department of Education. A student packet and an instructor's packet are published in each of the following subjects:

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