Ministry of Health Hashemite Kingdom of Jordan PHCI Primary Health Care Initiatives USAID September 2002

This publication, *Standards of Care for Health Centers*, was made possible through support provided by the U.S. Agency for International Development, under the terms of Contract No. 278-C-00-99-00059-00. The opinions expressed herein are those of the authors and do not necessarily reflect the views of the U.S. Agency for International Development.

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Primary Health Care Initiatives (PHCI) is implemented by Abt Associates, Inc., in collaboration with Initiatives, Inc., University of Colorado and TransCentury Associates, under Contract No. 278-C-00-99-00059-00 with the U.S. Agency for International Development (USAID).

Standards of Care for Health Centers

Volume V

Nursing Care Services

Nursing Care

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Acknowledgements

These Standards of Care for Health Centers would not have been possible without the leadership and commitment of his Excellency the Minister of Health and Dr. Taher Abu El Samen, whose belief in standards as a cornerstone for quality of care catalyzed the development process. Chairpersons and members of the technical working groups brought their experience, expertise, and hard work to bear in creating these Standards. Finally, the technical reviewers, all recognized experts, were able to fine-tune the Standards, ensuring accuracy and appropriateness for health center facilities.

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Special acknowledgements go to Dr. Jafar Abu-Taleb and Dr. Mary Segall, PHCI/Initiatives advisors, who managed the Standards' development process with great care; identifying and involving Jordanian experts, building support for the standards, and ensuring careful integration of PHCI expertise and experience. We are grateful to Dr Salwa Bitar for her consistent support and guidance, and to the United States Agency for International Development,

through contract #278-C-99-00059-00, for the vision and financial support so important to the success of this project. PHCI would also like to acknowledge the work of consultants Betty Farrell and Pamela Putney, who made invaluable contributions to the development of the Reproductive Health and Nursing Care Standards. Finally, sincere thanks go to Hala Al Sharif of the PHCI Project and to Jaime Jarvis of Initiatives Inc., who so capably coordinated the organization, editing, and compilation of the documents.

Introduction

Health for all is an achievable goal for the citizens of the Hashemite Kingdom of Jordan where primary care focuses on providing high quality preventive, promotive, and curative care in a cost-effective manner. The Jordanian Ministry of Health and USAID-funded Primary Health Care Initiatives Project (PHCI) have formed a partnership to reach this goal.

The Standards of Care for Health Centers described here represent a milestone in the road towards better health. They are tangible evidence of the considerable thought and effort that has been devoted to promoting quality of care by the Ministry of Health.

The purpose of the "Standards" is to ensure that health center staff members have the basic and essential guidance required for safe, effective, and humane service delivery. The Standards are contained in five volumes, each addressing a distinct aspect of health center services. A sixth volume of performance checklists is included with the Standards to facilitate self-assessment and performance review. As a set, the Standards are intended to serve as a convenient reference, a guide for service delivery, and a tool to support performance improvement. When following the guidelines set forth in the Standards, members of health center staff are assured that services meet the accepted standard of care required by their communities. The volumes and contents are described below.

Volume 1: Health Center Management

The Management Standards are organized in four sections. The first section contains job descriptions for staff providing direct and supportive care at health centers. The descriptions are meant to serve as a job aid for those who hold the positions and their supervisors rather than a model for staffing. The second section conveys the expected values and norms for health center services through a description of patient and provider rights and responsibilities. The third section contains the MOH guidance for managing health center accounting procedures and records. The fourth section contains instructions for procurement of drugs, contraceptives, vaccines, and supplies for laboratory and dental services.

Volume 2: Case Management

The five clinical problems addressed in the Case Management guidelines are: diabetes mellitus type II, hypertension, acute respiratory infection, asthma, and diarrhea. These conditions represent a significant percentage of the common medical problems encountered at health centers. Detailed guidance for diagnosis and management of each clinical problem is given, including recommendations for drug management, health education, referral, and follow-up care. Algorithms accompanying each clinical problem inform critical diagnostic or management decision-making. Together, these tools provide reference options for both quick and comprehensive review. Performance checklists complete the package for facilitating self-assessment and peer review.

Volume 3: Reproductive Health

This volume contains guidance for the reproductive health care services typically performed by doctors, nurses, and midwives at primary health centers. Antenatal care focuses on initial assessment and continuing support for pregnant women. The postnatal care section guides follow-up care for new mothers and their infants. Family planning includes guidance for counseling and information on the full range of contraceptive methods available in Jordan. A brief section on HIV/AIDS provides general information, basic education, and prevention messages for the community. All procedures described in the volume are accompanied by performance checklists, which reinforce and highlight the essential skills required for high quality reproductive health services.

Volume 4: Preventive Services

This volume addresses two different but complementary aspects of prevention, which are of great importance to the communities served by health centers. The first section covers prevention of childhood diseases through immunization; the second addresses the prevention of infection transmission within the health facility and among clients, staff, and the communities they serve. Immunization guidelines describe management of the cold chain and vaccines, immunization procedures and schedules, roles of staff, recordkeeping, and supervision. Infection prevention includes guidelines for maintaining protective barriers through handwashing, use of gloves and antiseptics, and procedures for decontamination, cleaning, sterilization, and waste disposal. Performance checklists are provided for all important procedures as a guide for self-assessment and performance review.

Volume 5: Nursing Care

Nursing procedures influence the care of most patients who visit the clinic by supplying the medical information that forms the basis for higher-level medical decisions about care and follow-up. This volume gives special attention to the procedures that are commonly called nursing care, but which are frequently performed by other members of the health center team. Guidance for home visits, child growth and development, immunizations, general care, and first aid is presented. As in the other volumes, performance checklists are included.

Volume 6: Performance Checklists

The performance checklists presented in each of the five volumes have been compiled in this final volume. These compiled checklists are a convenient tool and job aid for refreshing knowledge, guiding self-assessment, and standardizing performance assessment at the health centers.

List of Acronyms

BCG:	Bacilli-Calmette-Guerin vaccine
BP:	Blood Pressure
CPR:	Cardiopulmonary Resuscitation
DPT:	Diphtheria, Pertussis, and Tetanus Vaccine
DT:	Diphtheria-Tetanus Vaccine
FIFO:	"First In, First Out"
HIB:	Haemophilus Influenza Type B
IM:	Intramuscular
LAM:	Lactational Amenorrhea
MMR:	Maternal Mortality Rate/Ratio
ORS:	Oral Rehydration Solution
PHC:	Primary Health Care

Community Family Health

Home Visits

The home visit is an opportunity to learn about and get to know the family. Visiting families in their homes provides an opportunity to obtain better information about clients, understand their problems, and develop a stronger rapport with them. It also enables the nurse/midwife to get to know the community in order to be more effective when delivering care at the health center. Clients are often more comfortable discussing problems (particularly personal matters) in their homes than in the health center. Visiting clients in the community is an essential part of nursing care and midwifery. It can also be enjoyable and interesting!

Objectives

- 1. Observe the family functioning at home and how family members interact with each other.
- Provide health education and guidance regarding determinants of health status;
 e.g. subjects such as nutrition, immunizations, personal hygiene, safety, and smoking.
- 3. Observe nursing care provided to any sick person in the house and offer guidance.
- 4. Identify risks to health status and offer guidance for health concerns or problems such as bathing newborns, breastfeeding, reducing environmental risks, and prevention of childhood accidents.
- 5. Identify family members at risk, such as pregnant women, sick children or children with physical disabilities, or elderly, and refer as needed.
- 6. Follow-up persons who have not returned to the center for care.

Though services provided during home visits should correspond to the purpose of the visit, take every opportunity to improve and promote the health of the family. For example, if the purpose of the visit is to check the blood pressure of a family member with

hypertension, and one of the children is observed to have an upper respiratory infection, the nurse/midwife should attend to the needs of each family member. If a case is serious or high priority, discuss the situation with the mother and/or other family members, taking care NOT to blame or criticize.

Before Leaving the Health Center:

- Define the purpose of the visit(s)
- Prepare a home visit bag with supplies
- · Prepare documents to record observations
- Arrange transportation
- Obtain clients' addresses
- Plan to visit non-communicable clients first

Equipment and Supplies

Include the following in the Home Visit Bag:

- Blood pressure cuff
- Stethoscope
- Thermometer
- Spring weight scale for newborn
- Soap
- Towel
- Tape measure
- Handouts on family planning
- Samples of family planning methods

Bring the following documents on home visits:

- · Records for recording observations from home visit
- Plan of action for family health
- · Family records and empty cards
- Pen and notebook

When You Arrive:

- Greet client/family members courteously
- Introduce yourself
- State clearly the purpose of your visit
- Do NOT enter a home without the family's permission

Evaluate the Family's Health and Function

During the first visit, inquire about and note all health services that the family has received from the health center, such as immunization, ante- and postnatal care, and childhood care services.

Assess Each Individual

- Give priority to pregnant and postpartum women, children under five years of age, infants recently weaned, and sick family members.
- Ask women of reproductive age what method of family planning they are using (if any) and if they have any questions about family planning methods.
- Refer any family member with signs or symptoms of a health problem to the health center as appropriate. Give follow-up appointments using the referral form.
- Record actions taken and note dates of follow-up visits.
- Document in the family record important facts and information concerning any individual in the family.
- After providing services, explain briefly to the mother about the health services that you and your colleagues are providing.
- Ask family members about any needs or problems to be discussed during the next visit.

Evaluate the Home Environment

- Observe any dangerous conditions or practices in the home environment.
- Discuss with the mother and other family members how and why identified practices or risk factors may be hazardous to the family's health.
- Propose some steps that the family can take to correct dangerous conditions and to prevent problems that may occur.
- Record observations and any actions taken during the visit.
- Record any unusual observations and any recommended actions on the family evaluation form.

Performance Checklist 1: Home Visits

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

	Achieved?		
Task	Yes	No	Comments

All Clients		
1. Greets client and introduces self in a friendly manner.		
2. Explains purpose of the visit.		
 3. For children under age 5, asks about: Immunizations Breast feeding/weaning Growth and development 		
 4. Asks women about: Pregnancy Postpartum Family planning 		
5. Asks about sick family member(s).		
Health Education and Promotion		
 Provides appropriate health education/teaching for: Pregnancy Postpartum Children under 5 years of age Breastfeeding Weaning Family Planning Sick family members Tells client(s) about health center services 		
Home Environment		
1. Observes home environment for health risks		
 Discusses observations with mother/family members. 		
3. Proposes steps to correct situation/problem		
 4. Records: Observations Actions taken Unusual findings 		

Childhood Growth and Development

Monitoring Growth and Nutritional Status

Objectives

1. Determine the weight of newborn, infant, or child two years of age or younger.

- 2. Assess growth, health status, and nutritional needs of infants or children under age two.
- 3. Accurately measure weight--together with the height (length) of infant/child, weight is used to calculate body surface area and thus medication dosages.
 - NOTE: Weighing, measuring (checking height and length), and assessing infant development are routine nursing/midwifery procedures. These measurements provide an important opportunity for the nurse/midwife to assess infants' health and to teach mothers and other family members about their children. It is also an effective way to develop a closer relationship with the mother in order to better meet her health care needs. The nurse or midwife should make **every** mother who brings her infant to the health center feel that her baby is very special.

Talk to the mothers about their problems. Smile and play with the infants while you weigh them, measure them, and assess their development. Show mothers what their infants can do!

Equipment and Supplies

- Weight scale with tray and clean paper cover
- Pen and record for recording measurements

NOTE: Ensure that room temperature is suitable before undressing an infant, especially in winter.

Procedures for Weighing Infants

Different types of weight scales can be used to weigh infants. Health centers typically use weight scales with trays or baskets to hold infants. There may also be a portable weight scale that the nurse can take during her home visits. Always wash hands before handling infants.

- 1. Welcome the mother.
- 2. Ask the mother what the purpose of her visit is and inquire about the baby's health and nutrition.
- 3. Review infant card to verify name, age, previous immunizations, and weight and height measurements.
- 4. Explain to the mother the importance of weight measurements for monitoring growth and development.
- 5. Explain the procedure to the mother and ask for her assistance.
- 6. Prepare a clean piece of paper or a towel and place it on scale.
- 7. Check that the weight scale is calibrated. Ensure that the scale registers zero before weighing and rebalance scale if it is not calibrated.
- 8. Ask the mother to remove her infant's clothes, or assist her in doing so.
- 9. Handle infants gently: smile and talk soothingly and do not make quick or abrupt movements when unclothing or carrying infants to and from the scale.
- 10. Watch infants at all times while weighing them.
- 11. Hold one hand closely over (but not touching) infants while weighing them.
- 12. Ensure that the infant is not touched or held when weight is measured.
- 13. Measure weight accurately.
- 14. Immediately record the weight in the appropriate place on infant/child's record.
- 15. Assist the mother in dressing her child.
- 16. Inform the mother about her child's weight and show her on the growth card. Explain the importance of weight to the infant's age and development and ask if she has any questions.
- 17. Provide appropriate health education messages on infant/child nutrition, breastfeeding and LAM, care, hygiene, and vaccinations.

- 18. Inform the mother about the next appointment and write the date on infant record.
- 19. Ask the mother about her own health and what kind of family planning method she is using. Answer any questions or concerns she has and refer for follow-up care, if necessary.
- 20. Ask the mother about her baby's reactions when she talks to him to determine possible problems in hearing.
- 21. Report any unusual finding that may indicate a deviation from normal or from what is expected according to the growth chart to the physician or other responsible person.
- 22. Wash hands thoroughly following the procedure.

Growth Charts

Growth charts make it easy to see at a glance whether or not a child is gaining weight normally, so that nurses and midwives can inform parents and take steps to protect the child's health. The nurse/midwife should explain the chart and how to use it to the mother.

The two long, curved lines on the chart are guides that show the range of a healthy child's weight. The child's weight should fall between these lines. In most healthy children, the line of dots (representing the child's weight each month or every few months) rises steadily, following the direction of the curved lines.

Poorly nourished or underweight children are more susceptible to infectious diseases like pneumonia and have more difficulty fighting infections once they are sick.

To Use a Growth Chart

- 1st Write the months of the year in the squares at the bottom of the chart.Write the month that the infant was born in the first square for each year.
- 2^{nd} Weigh the baby.
- 3^{rd} Look on the side of the card for the child's weight in kilograms.
- 4th Look for the present month at the bottom of the chart and follow the line that goes out from the weight and up from the month.

Mark a dot where these lines cross. This is the baby's weight.

Each month (or every few months, depending on the infant's age), weigh the baby and add another dot to the chart. Join the dots together with a line.

If a child is healthy and eats enough nutritious food, the child should gain weight each month.

Notes: The direction of the line of dots is more important than whether the dots are inside or below the two curved lines.

Some children are naturally smaller than others. If the line connecting the dots slants steadily upward (meaning the child is gaining weight), then the child is growing well.

If the line connecting the dots is flat (meaning the child is not gaining weight), talk to the mother and try to determine the reasons why (e.g., the child has been sick, is not eating well, weaned abruptly or too early). It could be the first sign of a problem.

If the line connecting the dots slants downward (meaning the infant is losing weight), the child may be sick or in danger, and needs extra care.

If a child gains weight more slowly than other children, stops gaining weight, or loses weight, the child may not be getting enough to eat, or may have a serious illness, or both.

Obesity in Infants and Children

A child who is overweight should also be monitored. If a child's weight is consistently above the curved lines on the growth chart, and the height of the child is not above average (children who are much taller than average will probably also show weights above the curved lines), the cause should be investigated. Obesity in children can lead to chronic diseases in adulthood, such as high blood pressure, diabetes, and heart disease.

0-6 Months	Birth weight doubles		
6-12 Months	Birth weight triples by 1 year Average weight at 1 year is 10 kg		
1-3 Years	Expected weight gain of 2 kg per year		
3-5 Years	Weight gain of less than 2 kg per year Average weight at 5 years is 18 kg		

Table 1. Expected Weights for Infants and Children Under 5 Years

Developmental Screening

Developmental screening helps providers identify problems in infants and children at an early stage so that they can be referred for appropriate care. Simple developmental screening should always be done during routine well-child and immunization visits. The nurse/midwife plays an important role in screening, educating, and supporting families. Parents and other family members enjoy learning what their children can do at different ages, and providers should take every opportunity to educate and counsel parents about their children's development, including the preventive measures they can take to enhance their children's health and well being.

Objective

To identify and refer developmental problems in infants and children at an early stage.

Key Points

- Screening is a preliminary investigation-not definitive
- Referral and further testing by a qualified pediatrician or developmental specialist are necessary to confirm any findings
- If a problem is confirmed, a follow-up and treatment plan should be developed to help parents improve or manage their child's condition

Equipment for Developmental Testing

Use rattles, blocks, or any brightly colored toys to test babies and infants during visits to the health center. You can make blocks out of discarded cardboard medication boxes by covering them with bright paper. Wooden tongue depressors can be wrapped with bright yarn or material. Balls can be made out of bright string or yarn. Use your imagination! Ask community members or members of your own family to donate toys to use for developmental screening.

"Playing" is how children grow and learn.

Age	Milestones		
	Can raise head up when lying on stomach		
	Watches hands and feet		
0-3 Months	Reacts to sounds		
	Smiles at mother		
	Attempts to grab objects		
	Can roll over from back onto stomach		
	Follows objects in any direction		
3-6 Months	Recognizes persons		
	Can grab object in each hand		
	Begins to imitate sounds		
6-9 Months	Sits without help		

Table 2. Developmental Milestones in Newborns and Infants

	Claps hands		
	Can wave with wrist		
	Says words like "Ma Ma" & "Da Da"		
	Can pass objects with hands		
	Stands with help		
	Starts to crawl		
0.12 Marsha	Puts and takes out objects from a box		
9-12 Months	Grabs with two fingers		
	Pronounces single words		
	Has 2-4 Teeth		
	Walks and begins to run		
	Opens and closes doors		
1-2 Years	Associates objects and persons		
	Helps to get him/herself dressed and undressed		
	Knows meaning of some words ("no")		
	Jumps using both feet		
2-3 Years	Says short phrases (2-3 word sentences)		
	Draws lines and circles		
	Builds tower with 3-4 blocks		
	States own name		

Children At Risk

It is important for nurse/midwives to screen for, identify, and closely monitor children who are considered "high risk" for growth and developmental problems. Early detection and treatment of problems can help prevent serious illness and even death in children.

Infants and children at high risk for growth and developmental problems include those with:

- Birth weight below 2.5 kg
- Brothers or sisters who show signs of malnutrition
- Families with 4 or more children
- Twins or multiple births
- Birthdays less than 2 years after last sibling
- History of sibling death
- Single mother or father
- Low Apgar score

- Sick baby
- Complicated labor and delivery

Measuring the Height of Children Under 2 Years

Objective

To determine whether a child is within the normal range of height for his or her age.

Equipment and Supplies

- Measuring board or meter, usually calibrated in centimeters.
- Brace for the feet (*e.g.* box) if a measuring board is not available
- Ruler or measuring square

Procedures for Measuring Height

- 1. Wash hands thoroughly.
- 2. Welcome the mother. Ask her what the purpose of her visit is and ask her about her child's health and nutrition.
- 3. Review infant or child's growth card to verify name, age, immunizations received, and previous weight and height measurements.
- 4. Explain procedure to mother and ask her assistance.
- 5. Place a clean towel or paper towel on the measuring surface.
- 6. Smile and talk reassuringly to the infant. Do not make sudden movements and handle the baby gently.
- 7. Place the infant on measuring surface parallel to the measuring ruler. Do not leave the infant because he/she may roll off the table.
- 8. Press soles of feet against an upright structure that is point zero on the ruler.
- 9. Make sure that the infant or child's knees are extended and hold the infant's head face to the ceiling.

- 10. Place the ruler or measuring square against top of head at a right angle to the measure. Note the point on the measuring board to which the ruler comes.
- 11. Record the height on baby's growth card.
- 12. Inform the mother about her infant's height and explain what it means in terms of the infant's age and development. Ask the mother if she has any questions.
- 13. Ask the mother about her own health and what type of family planning she is using. Answer any questions that she has and refer for follow-up, if necessary.

	—		
0-6 Months	Grows approximately 2.5 cm per month		
	At 6 months average length 66 cm		
	Grows an average of 1.25 cm per month		
6-12 Months	Height/length increases 50% by 1 year of age		
1-3 Years	Height increases by 7.5 cm per year		
3-5 Years	Height increases 5-7 cm per year		
	Average height at age 5 years is 108 cm		

Table 3. Expected Height and Length for Infants and Children Under 5

Measuring Head Circumference of Children

Objective

Screen for abnormal development of the brain e.g. (hydrocephalus) by measuring the rate of growth of the skull.

Equipment and Supplies

- Cloth or soft plastic measuring tape (scaled in cm)
- Pen and record to record measurements

Procedures for Measuring Head Circumference

- 1. Wash hands thoroughly.
- 2. Welcome mother and ask her the purpose of her visit to the health center.
- 3. Review the infant's card to verify name, age, immunizations and previous height/weight measurements.

- 4. Explain to mother the importance of measuring head circumference is to monitor child's growth and development.
- 5. Explain procedure to mother and ask for her assistance.
- 6. Smile and talk reassuringly to the infant. Handle the infant gently.
- 7. Place infant on a flat table on a clean sheet or towel.
- 8. Place measuring tape over the occipital and frontal prominence (*i.e.* around infant's occipital region and forehead) and take the correct reading.
- 9. Remove the measuring tape.
- 10. Read the measurement on the tape in centimeters.
- 11. Record the reading obtained on child's record.
- 12. Inform and explain to the mother the results you obtained and ask the mother if she has any questions.
- 13. Ask the mother about her own health and what method of family planning she is using. Answer any questions she has and refer her for follow up, if necessary.
- 14. Wash hands thoroughly.

Table 4. Expected Head Circumference for Infants

and Children Onder Age 5			
Dirith to C Marstha	Increases 1.2-1.5 cm per month		
Birth to 6 Months	At 6 months health circumference is around 43 cm		
	Increases 1.2 cm every 2 months		
6-12 Months	At 1 year head circumference is around 46-50 cm		
4.0.11	Anterior fontanel closed by 15 months		
1-3 Years	Head circumference increases approximately 2.5 cm per year		

and Children Under Age 5

Performance Checklist 2: Monitoring Growth and Nutritional Status

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a

particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

T. J.	Achieved?		Commente
Task	Yes	No	Comments
1. Greets client and introduces self in a friendly manner.			
2. Asks mother what the purpose of her visit is and inquires about the infant/child's health and nutrition.			
3. Reviews infant's card to verify name, age, previous immunizations, weight and height measurements.			
4. Explains to mother the importance of measuring weight.			
5. Places a clean piece of paper/cloth on the scale for the infant to lie on.			
6. Checks to make sure that the weight scale is calibrated (the scale should register 0 before weighing) and rebalances scale if not calibrated.			
7. Asks mother to assist in removing the infant's clothes.			
8. Talks soothingly to and smiles at the infant and handles the infant gently when placing them on the scale.			
9. Watches the baby constantly and holds one hand closely over the baby (not touching) while weighing him/her.			
10. Measures and records weight accurately.			
11. Shows mother the weight on the growth card, explains the importance of weight to his/her age and development.			
12. Asks mother if she has any questions.			
Task	Achieved?		Comments
Таяк	Yes	No	Comments

13. Provides appropriate health education messages on child's nutrition, care, hygiene,	
and vaccinations.	
14. Informs mother about the next appointment and notes date on infant card/record.	
15. Counsels mother on healthy diet and family planning options.	
16. Reports any unusual finding to the physician.	
17. Washes hands thoroughly.	

Performance Checklist 3: Developmental Screening

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

	Achieved?		-
Task	Yes	No	Comments

All Clients			
1. Greets the client and introduces self in a friendly manner.			
 Asks mother what the purpose of her visit is and inquires about infant/child's health and nutrition. 			
3. Reviews infant's card to verify name, age, immunizations, weight and height measurements.			
 Explains to mother the importance of screening to assess child's development. 			
5. Washes hands.			
6. Talks soothingly to and smiles at the infant.			
Development Assessment All Infants/Children			
1. Asks mother if she has any questions about child's development.			
 Provides appropriate health education messages on child's growth and development, nutrition, care, hygiene and vaccinations. 			
 Informs mother about the next appointment, notes date on infant card/record. 			
4. Records findings from developmental screening			
5. Notifies physician of any unusual findings			
	Achieved?		
Task	Yes	No	Comments

Months 0-3		
Checks for all of the following		
developmental milestones:		
• Raises head when lying on stomach		
Observes hands and feet		
Reacts to sounds		
Smiles at mother		
Attempts to grab objects		
Months 3-6		
Checks for all of the following		
developmental milestones:		
• Rolls over from back to stomach		
 Follows objects in any direction 		
• Can grab object in each hand		
Can imitate sounds		
Months 6-9		
Checks for all of the following		
developmental milestones:		
 Maintains sitting position 		
without assistance		
Claps hands		
• Waves		
Says simple words		
Passes objects with hands		
Months 9-12		
Checks for all of the following		
developmental milestones:		
Stands with assistance		
Starts to crawl		
• Puts and takes objects from a box		
Grasps with two fingers		
Pronounces single words		
1-2 Years		
Checks for all of the following		
developmental milestones:		
 Walking and running 		
 Opening and closing doors 		
Ability to assist in dressing		
• Understands simple words like "yes"		
and "no"		
2-3 Years		
Checks for all of the following		
developmental milestones		
• Jumps with both feet		
• Says 2-3 word sentences		
• Draws line and circle		
• Builds a 3-4 block tower		

Performance Checklist 4: Measuring Height of Children Under 2 Years

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

T- 1-	Achie	eved?	
Task	Yes	No	Comments
1. Greets the client and introduces self in a			
friendly manner and inquires about the			
purpose of the visit.			
2. Reviews the child's record			
3. Washes hands			
4. Gently places the child on the clean			
measuring surface.			
5. Gently but firmly presses the soles of the			
child's feet against the upright structure			
that is at point zero on the measuring			
ruler.			
6. Makes sure that the child's knees are			
extended.			
7. Correctly measures and records child's			
height/length on growth card.			
8. Asks mother if she has any			
questions and gives appropriate health			
messages.			
9. Informs mother about the next			
appointment, notes date on infant			
card/record.			
10. Washes hands.			

Performance Checklist 5: Measuring Head Circumference of Children

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the

"Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

Tasla	Achie	eved?	Commente
Task	Yes	No	Comments
1. Greets the client and introduces self in a friendly manner and inquires about the purpose of the visit.			
2. Reviews the child's record.			
3. Washes hands.			
4. Gently places the child on a clean exam table.			
5. Measures the head by placing a measuring tape over the largest axis from the occiput to the frontal prominence			
 Records the reading on the infant's record and reports any unusual finding to physician. 			
7. Informs and explains the reading and asks the mother if she has questions.			
8. Provides appropriate health education messages child nutrition and care.			
 Inquires about mother's general and reproductive health, answers any questions, and refers for follow-up if necessary. Washes hands. 			

Immunizations

Administering Childhood Vaccines

Objective

To protect infants and children from childhood diseases such as diphtheria, pertussis (whooping cough), tetanus, polio, measles, and hepatitis B.

Equipment and Supplies

A tray containing instruments for measuring and administering vaccines, including:

• Thermometer

- Vaccine vial
- · Cotton swabs moistened with normal saline
- Dry cotton swabs
- Syringes
- Sharps container for used needles
- Immunization card and record book

Procedures for Administering Vaccines

- 1. Welcome the mother and ask her about the purpose of her visit.
- 2. Ask the mother if her infant has received the specific vaccine before. Compare information with immunization card to confirm immunization status (previous doses of vaccine and dates).
- 3. Ask mother if she agrees to give her infant or child the vaccine; discuss importance of and different kinds of vaccines and purpose of each, benefits in protecting her child, importance of giving vaccines on time according to prescribed schedule.
- Answer any questions the mother may have about the vaccines. If she agrees to have her infant immunized, do the following:
 - Take the infant or child's temperature. Inform the physician if the temperature exceeds 38°C (typically, the physician will recommend that the infant or child return to receive the immunization when he or she does not have a fever.
 - Ask mother if her child has had any previous reactions to an injection or vaccine.
 - If yes (the child has had a reaction), ask her to specify the nature of the reaction, and consult the physician.
 - If no (the child has not had a reaction), continue with the immunization.
- 5. Wash hands thoroughly.

- 6. Prepare the vaccine (make sure it has not expired) and necessary supplies for immunization.
- 7. Except for the polio vaccine, which is given orally (2 drops in the mouth), ask mother to hold her infant for the injection. Talk soothingly to the child, smile and handle the infant gently.
- 8. Lay the infant on the exam table and uncover the vaccination site.
- 9. Expose site for injection. (Consult chart for site of each type of vaccine)
- 10. Clean the vaccination site with a cotton swab moistened with normal saline, using a circular motion.
- 11. Administer correct dose of the vaccine.
- 12. Insert needle firmly and quickly through the skin at the chosen site; take the syringe out quickly, holding needle at the base; compress the site with a dry cotton swab or gauze.
- 13. Dispose of the used syringe correctly, preferably into a "sharps" container.
- 14. Return the vial of vaccine to the thermos or refrigerator.
- 15. Wash hands thoroughly.

Vaccine	1st Dose	2nd Dose	3rd Dose	4th Dose	1st Booster	Method of
vaccine	1st Dose		JIU DOSE	4ui Dose	1st Booster	Administration
Polio*	2 months	3 months	4 months	9 months	18-12 months	Two drops in the
						mouth
DPT &	2 months	3 months	4 months			Deep IM injection-
Hepatitis B						thigh
DPT					18-24 months	Deep IM
						Injection-thigh
Measles				9 months		Deltoid
MMR					15	Subcutaneous-in the
					months	upper part of the arm
HIB	2 months	3 months	4 months			Deep IM injection-
(Haemophilus						thigh
Influenza B)						
BCG	5-30 days					Intradermal

 Table 5. Recommended Immunization Schedule

*Boosters should be given for polio at age 6 years and for DT at 6 years and 11 years.

Administering Tetanus Vaccine to Women

Objective

To protect women and their unborn children from tetanus.

In Jordan, TT1 is given after three months of pregnancy because pregnant women think that receiving TT vaccine in the first trimester may cause pregnancy loss.

Equipment and Supplies

- Anti-tetanus vaccine
- Syringes
- Cotton swabs (moistened with saline)
- Dry cotton swabs
- A container for used swabs

Procedures for Administering Tetanus Vaccine

- 1. Welcome the mother and ask her the reason for her visit.
- 2. Wash hands thoroughly.
- 3. Prepare equipment and supplies.
- 4. Explain the procedure to the woman and assure her consent.
- 5. Prepare the right dose of tetanus vaccine (0.5 ml). Check to make sure it has not expired.
- 6. Rub the injection site (the external upper part of the arm) with a cotton swab moistened with normal saline.
- 7. Use your left hand to stretch the muscles of the arm.
- 8. Insert the needle into the muscle.
- 9. Inject the vaccine into the muscle.
- 10. Draw the needle back and press the injection site with a dry cotton swab.
- 11. Educate the woman about the importance of the tetanus vaccine, the doses she should receive and when.
- 12. Wash hands thoroughly.

13. Record the date of the vaccination in the record book and on the vaccination card write the date of the vaccination and date of the next dose.

Dose	Schedule	
TT1	At first contact or as early as possible during pregnancy	
TT2	4 weeks after TT1	
TT3	6-12 months after TT2, or during subsequent pregnancy	
TT4	1-3 years after TT3, or during subsequent pregnancy	
TT5	1-5 years after TT4, or during subsequent pregnancy	

Table 6. Dose and Schedule for Tetanus Toxoid

Performance Checklist 6: Administering Childhood Vaccines

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

T 1		Achieved?		
	Task	Yes	No	Comments

1. Greets the client and inquires about the child's health.			
2. Asks mother if infant has received the			
specific vaccine before and			
compares information with			
immunization card.			
3. Explains to mother the importance of the			
vaccine schedule and purpose of the			
vaccination(s) to be given.			
4. Asks mother if she agrees to give her			
infant the vaccine and if she has any			
questions.			
5. Washes hands.			
6. Takes the child's temperature and informs the physician if the			
temperature exceeds 38°C.			
7. Asks mother if child has had reactions to			
previous immunizations and refers to			
physician if answer is yes.			
8. Prepares the vaccine and checks the expiration date.			
9. Asks mother to hold her child.			
10. Smiles and talks soothingly to the child			
while uncovering the			
injection site.			
11. Cleans the injection site.			
12. Administers and records			
the immunization.			
13. Disposes the used syringe correctly.			
	Achie	eved?	
Task	Tienie veu.		Comments
	Yes	No	
14. Informs mother about signs of side			
effects and what actions to take if they			
occur.			
15. Informs mother about the next			
appointment, notes date on infant			
chart/record.			
16. Provides appropriate health			
messages/education on child's nutrition,			
care, hygiene, and vaccinations.			
17. Asks mother about her own general and			
reproductive health, and refers her for			
follow-up if necessary.			
18. Washes hands.			

Performance Checklist 7: Administering Tetanus to Women

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

Test	Achieved?		C i
Task	Yes	No	Comments
1. Greets the woman and confirms the purpose of the visit.			
2. Reviews client's record.			
3. Explains the purpose of the vaccination and the dose schedule.			
 Asks the woman if she has any questions. 			
5. Washes hands.			
6. Checks the vaccine expiration date and prepares the injection.			
7. Cleans the injection site (the external upper part of the arm).			
8. Administers and records the vaccination.			
 Informs the client when she should return for her next dose or follow- up visit. 			
10. Asks the client if she has any questions.			
 Asks the client about her own general and reproductive health and refers her for follow-up if necessary. 			

General Care and First Aid

Sterile Dressing

Objective

To prevent contamination and provide sterile covering for open wounds.

Equipment and Supplies

A sterile wound dressing package with:

- Bowl
- 2 forceps
- 2 small containers
- Cotton balls
- Gauze 5 x 5 cm

Other supplies:

- Adhesive tape
- Disinfecting solution
- Disposable and surgical gloves
- A pair of scissors
- Garbage basket
- Plastic bag

Sterile Dressing Procedures

Preparation

- Respect the patient's privacy by closing the door and curtains.
- Explain to the patient what you are going to do.
- Wash your hands.
- Put the patient in a comfortable position to examine the wound.
- Expose only the area around the wound, and keep the rest of the body covered.
- Move the dressing trolley next to the patient so you can reach supplies easily.
- Unwrap the external cover of the sterile pack without touching its inner surface.
- Affix a trash bag at the trolley's edge with a piece of adhesive tape.

Removing an Old Dressing

- Put on disposable gloves and gently remove the adhesive tape.
- Take off the old dressing and throw it in the trash bag.
- Take note of wound's condition (size, smell, secretions and healing).
- Remove and dispose of the disposable gloves.
- Wash your hands.

Cleaning the Wound

- Unwrap the dressing package by touching only the sterile side.
- Pour the disinfectant into a small container.
- Open the gauze or cotton packs without touching the inner surface.
- Wear surgical gloves.
- Wrap a gauze or cotton piece around the forceps.
- Immerse the gauze or cotton in the disinfectant and squeeze it by pressing it against the container's wall, or by using the second forceps.
- Clean the wound from the less contaminated area toward the more contaminated area (and from top to bottom).
- If the wound goes downward, clean it only once with the same gauze.
- Throw the soiled gauze into the trash, take another piece of gauze, immerse it in the disinfectant and clean around the wound. Continue in the same manner until the wound and surrounding area are clean.
- If wound edges are irregular, clean the wound from the center outward in a circular motion. Change the gauze every time.
- If the wound is infected, clean the surrounding area first, then the wound itself.
- Dry the wound in the same way you have cleaned it. If there is a drainage opening near the wound, clear around it in circular movements using another gauze. Clean the drainage opening from the bottom up.

Redressing the Wound

- Cover the wound and the drainage opening with a piece of gauze proportional to the size of the wound.
- Take off the gloves correctly and throw them in to the trash
- Use the adhesive tape to fix the gauze.
- Put the instruments back after cleaning and sterilizing them.
- Wash your hands.

Administering Intravenous (IV) Fluids and Medications

Objective

To establish an intravenous route for administration of drugs and fluids.

Equipment and Supplies

- The solution, according to physician's order
- Infusion set
- Stand to hang solution
- Fluid recording form (intake and output chart)
- Clean container or tray containing:
 - Venous solution, prepared for the patient
 - Alcohol
 - Cotton swabs
 - Iodine solution to clean injections site
 - Needle of appropriate size
 - Dressing package
 - Sterile dressing gauze 2x2 cm or a bandage with adhesive tape
 - Label for the solution bag

ALWAYS check the dose of any medication before giving it. NEVER give a medication without knowing what it is, what the possible side effects are, and whether or not the patient has any allergies to medications.

When In Doubt, ALWAYS Check Before Giving Medication To A Patient

IV Procedures

Preparations

- Check the instructions carefully.
- Identify the required solution for its volume and type, check the solution bag for any defect, turbidity, foreign bodies and expiration date.
- Prepare all the supplies and put them on a tray.
- Wash your hands.
- Assure the patient and explain what you are going to do.

Starting the IV

- Choose the appropriate size needle for the venous solution.
- Connect the bag/bottle to the tubes, let in the fluid to displace the air in the tubes and cover the ends. DO NOT TOUCH the ends of the tubes, nor the sterile surface of the bottle (the opening).
- Raise the head of the bed if necessary so that the patient will be comfortable.
- Wrap the rubber tourniquet around the patient's arm 10-15 cm above the injection site.
- Choose a suitable site for the injection; ask the patient to open and close hand, watch and check the arm for a suitable vein.

- Prepare the injection site by cleaning it with iodine solution, using a circular movement from the injection point outward, wait two minutes until it dries, then clean with alcohol to remove the iodine solution. If the patient is highly sensitive to iodine, use 70% alcohol instead.
- Fix/stabilize the vein with your other hand by pulling the skin over it.
- Hold the needle with its opening up, at an angle of 30-45° to the skin surface and at a distance of 1 cm from the injection site. Do not puncture the vein yet.
- Reduce the angle (until the needle is almost parallel to the skin surface) then insert the needle into the vein in the injection site or directly above it.
- If the blood flows, push the needle straight for about 2-3 cm.
- Slowly release the tourniquet and connect the needle with the tube. Open the valve so that the solution can drip.
- Apply sterile gauze beneath the needle hub.
- Fix the needle in place by using adhesive tape.
- Cover the needle site with sterile gauze or adhesive tape, but do not wrap the tape completely around the limb.
- Connect the solution to the needle shaft and fix a loop of the tube to the adhesive tape over the dressing.

Important Points

- Observe for side effects of IV treatments
- Palpate site of IV for pain, redness or swelling
- Monitor vital signs
- Continue to monitor the flow rate of the IV solution

Calculate the Flow of Fluids

• Calculate the rate of dripping and adjust the flow according to the formula below. (The number of drops per minute is the volume of solution needed to be injected multiplied by the number of drops per one milliliter, divided by 60 times the number of hours.):

of drops per minute = (ml to be injected) X (# of drops in 1 ml (16 drops))

60 X time (in hours)

• Label the fluids with the name of the solution, amount, starting time, duration, date and patient's name.

Complete and Clean Up

- Make sure the patient is comfortable, assure the patient and ask them if they have any questions.
- Dispose of the used materials and put the needle in the sharp container.
- Note on the observation sheet the site, type of needle, time, date, solution, volume of solution, reaction if any, and flow rate. Sign the sheet.

Administering Intramuscular (IM) and Subcutaneous Injections

Objectives

- 1. Ensure nurses use appropriate procedures in administering injections.
- 2. Ensure proper sterile technique.
- 3. Ensure nurses administer the injection at the correct site.

Equipment and Supplies

- Vials or ampules of sterile medication
- Sterile gauze
- Needle and syringe
- Antiseptic solution

- Distilled water (if vial contains powder)
- Cotton Swabs

Procedures for IM and Subcutaneous Injections

Preparation

- Provide privacy.
- Wash hands.
- Gather and organize the supplies and equipment needed.
- Check the label on the ampules or vial carefully against the medication card or prescription to ensure the correct medication and dosage are proposed.
- Check 5 rights: Patient, Dose, Route, Production Date, Expiration Date

Drug	Route/Site
Ephinerine	Subcutaneous
Insulin	Subcutaneous
Rabies	IM-Deltoid

Drawing Medicine from an Ampoule

- Flick the upper stem of the ampoule several times with a fingernail to make sure all the medication is in the lower part of the vial.
- Place a piece of sterile gauze on the far side of the neck of the ampoule (to protect your fingers) and break/snap off the top by bending it outward.
- Hold the barrel of the syringe in the middle and insert the plunger while maintaining its sterility (except the upper most part which you are holding).
- Attach the needle to the barrel by holding the hub of the needle and maintaining the sterility of the remainder of the needle and tip of the syringe. Most needles have protective caps.

- Remove the cap from the needle and insert the needle into the ampoule.
- Withdraw the amount of drug required for the dosage. If using the entire amount of medication in the ampoule, tilt it slightly on its side to withdraw all of the medication.

Drawing Medicine From a Vial

• Mix the solution, if necessary, by rotating the vial between the palms. DO NOT SHAKE THE VIAL.

NOTE: Some vials contain aqueous suspensions that settle when they stand and need to be mixed.

- Remove the protective metal cap and clean the top of the vial (the rubber part) using a sterile piece of gauze with antiseptic such as 70% alcohol, rubbing it in a rotating motion.
- Remove the cap from the needle and draw up into the syringe an amount of air equal to the volume of the medication to be withdrawn.
- Carefully insert the needle into the vial through the center of the rubber cap, maintaining the sterility of the needle.
- Inject air into the vial while the bevel of the needle is above the surface of the medication.
- Air will allow the medication to be drawn out easily. The bevel is kept above the medication to prevent bubbles, which are dangerous if injected into a vein.
- Invert (turn the vial upside down) and hold it at eye level while withdrawing the correct dosage of the drug into the syringe.
- Withdraw the needle from the vial and replace the cap over the needle, maintaining its sterility.

NOTE: For vials containing only a powder that require a liquid, such as sterile water, to be added, follow the manufacturer's directions for preparation. It is important to always withdraw an equivalent volume of air from the vial before adding fluid.

IM Injection in the Gluteus, Deltoid or Thigh

- Place a small amount of 70% alcohol on a clean cotton swab and rub the spot on the skin with the swab 2-3 times where you are going to insert the needle.
- Fix the needle firmly, holding it at its base (the end that is not pointed) and hold the syringe between the thumb and forefingers.
- Tell the patient you are going to insert the syringe and to take a deep breath.
- Push the needle into the body at the chosen spot quickly and firmly. The needle should go at least 2 cm into the body.
- Withdraw the plunger slightly to make sure there is no blood (you have not entered a vein) and press the plunger slowly until all medicine has gone in.
- Take the syringe out quickly, holding the needle at its base.

Subcutaneous Injection in the Upper Arm or Forearm (or Abdomen or Thigh)

- Pick up the skin of the forearm with the fingers of your left hand.
- Tell the patient you are going to insert the syringe.
- Push the needle into the skin that is pulled out, so that the needle goes in about 1 cm.
- Once the needle is under the skin, let go of the skin and press on the plunger of the syringe to insert all of the contents into the skin.
- Pull the syringe and needle out holding the needle at its base.

• Wash hands.

Measuring Blood Pressure (BP)

Blood pressure (BP) is the force that the blood exerts on blood vessel walls as it flows through them. Blood pressure is expressed in millimeters of mercury (mm Hg).

Objectives

- Ensure accurate measurement of patients' BP.
- Ensure accurate monitoring of changes in BP.
- Provide appropriate advice to patients with hypertension.

Equipment and Supplies

- Sphygmomanometer and stethoscope
- · Container with cotton swabs with alcohol
- Pen
- · Vital signs recording form

Procedures for Measuring Blood Pressure

- 1. Wash hands.
- 2. Organize equipment so that it is easy to reach. Clean the ear fittings of the stethoscope and the drum with alcohol swabs.
- 3. Reassure the patient and explain what you are going to do.
- 4. If the patient is emotionally upset, in pain, or out of breath from physical exertion, wait to measure BP unless it is urgently needed.
- 5. Use a BP cuff that is the appropriate size for the patient. A cuff that is too large or too small will give an inaccurate reading.
- 6. Make sure the patient is in a sitting or supine position with his or her arm supported and extended at heart-level, palm up.
- 7. Roll up the patient's sleeve.

- 8. Wrap the cuff around the arm, 2.5 cm about the elbow joint. The tubes of the cuff should be at the side closest to the elbow. Press the cuff to empty the air.
- 9. Put the sphygmomanometer beside the patient at the level of his/her heart.
- 10. Put three of your fingers (index, middle and ring fingers) over the brachial artery.
- 11. Shut the air pump valve by twisting it clockwise.
- Pump the cuff with air until the brachial pulse cannot be palpated and identify the disappearing point. Continue pumping air for another 30 mm Hg.
- 13. Gently apply the stethoscope disc over the brachial artery and hold it with your thumb or index and middle fingers.
- 14. Let the air out of the cuff at a rate of 2-3 mm Hg per second until the first beat. This is the *systolic* pressure.
- 15. Continue letting the air out until you hear the beats stop, and identify this point. This is the *diastolic* pressure.
- 16. Open the valve completely.
- Unwrap the cuff from the patient's arm, take the stethoscope from your ears, roll down the patient's sleeve and help the patient to get comfortable.
- 18. Tell the patient what his or her BP is and ask if there are any questions.
- 19. Record the systolic and diastolic pressure readings and compare current readings with any prior readings.
- 20. Record results, time, patient's position, and which arm was used to measure BP.
- 21. Answer any questions that the patient has and provide appropriate health education.
- 22. Put the instruments back in their place.
- 23. Wash hands thoroughly.
- 24. Inform the physician about any abnormal results.

Patients Who Require Monitoring of BP

- Emergency Patients
- Pregnant women
- Obese patients
- Diabetic patients
- Patients receiving intravenous fluids

Measuring Temperature in Infants and Children

Objectives

- 1. Acquire a baseline measurement on registration in order to compare with previous readings.
- 2. Detect an increase/change in temperature (high or low) that may signal health problems.

Equipment and Supplies

- Rectal thermometer (glass thermometer with a short, rounded bulb)
- Electronic thermometer
- Soft tissues (dry cotton to wipe glass thermometer before and after insertion)
- Lubricant (Vaseline to ease insertion of the thermometer)
- Watch with a second-hand
- Pen & file record (to note infant or child's temperature)

NOTE: Thermometers with long, slender tips are oral thermometers and should not be inserted into the rectum.

Procedures for Measuring Temperature

- 1. Welcome the mother and explain the procedure
- 2. Smile at and talk reassuringly to the infant or child
- 3. Remove thermometer from solution and clean with a cotton swab or soft tissue with soap and water. Rinse thermometer under cold water. Clean and wipe dry from the mercury bulb to the end.
- 4. Check level of mercury in thermometer. Shake mercury down, if necessary, by holding the thermometer between thumb and forefinger and flicking wrist sharply downward. Repeat this motion until mercury level is below 35°C.
- 5. Apply lubricant (Vaseline) on a swab and lubricate thermometer: 2.5 cm for a child; 1-2.5 cm for an infant.
- 6. For an infant, lay the infant on his or her back, hold both ankles with one hand, and raise legs to expose the anus.
- 7. With a child, lay the child on his or her left side, with the right leg flexed in a rectangle.
- 8. Use a dry cotton swab to clean the anus is clean.
- 9. Gently and slowly insert the thermometer into the anus: 1 cm for infants; 1.5 cm for children under one year and 2.5 cm for older children. **Do not force insertion of thermometer or attempt to insert it if the infant/child is unable or unwilling to hold still.**
- 10. Hold the thermometer in place for at least 2 minutes.
- 11. Remove the thermometer gently and wipe it to remove lubricant and facilitate reading; clean the anus to remove excess lubricant.
- 12. Help the infant or child assume a comfortable position and have the mother redress the infant.
- 13. To read the temperature, hold the thermometer between thumb and index finger at eye-level and rotate it until the column of mercury comes into view.
- 14. Clean the thermometer with a cotton swab and soap and water and then rinse with water from tip to bulb end.
- 15. Shake the thermometer as described above until the mercury falls below 35°C, and put the thermometer back in the disinfectant solution.

- 16. Record temperature reading.
- 17. Inform the mother about her child's temperature.
- 18. If temperature is above normal, initiate procedures to lower it.
- 19. Wash hands thoroughly.

Educational Messages

- Ask what the mother does when her child has a fever and take the opportunity to educate her about appropriate measures for treating a child with a fever.
- Explain to the mother why the elevation of temperature is a defense mechanism on the part of the child's body.
- Ask the mother about her own health and what method of family planning she uses. Answer any questions she has and refer her for follow-up, if necessary.

Measuring Adult Body Temperature

Objective

To ensure accurate measurement and monitoring of a patient's body temperature.

Equipment and Supplies

A tray with:

- Rectal or oral thermometer
- · A container with cotton swab moistened with water
- · Dry cotton swabs
- A container with cotton swabs, moistened with alcohol or soap and water
- Kidney shape receiver for used swabs

- · Handwatch with second-hand
- Lubricant and gauze
- A pen and sheet of paper to record temperature

Procedures for Measuring Adult Temperature

- 1. Wash your hands.
- 2. Prepare the necessary equipment and supplies.
- 3. Assure the patient and explain what you are going to do.
- 4. Assist the patient to get into a comfortable position.
- 5. Before use, clean the rectal thermometer from mercury bulb towards the end and after use clean it from the end towards the mercury bulb.
- 6. Read the temperature while you hold the thermometer between your fingers horizontally at your sight level. Roll it slowly until you can see the mercury line clearly.
- 7. Hold the thermometer tightly between thumb and index finger and shake it quickly until the mercury goes back into the bulb, showing a reading of less than 35°C.

By Mouth

- Make sure that the patient did not have a hot drink or smoked for at least 15 minutes.
- Ask the patient to open his/her mouth and to put the thermometer under their tongue.
- Ask the patient to hold the thermometer with their lips, not teeth.
- Leave the thermometer for 3-4 minutes.

Under the Armpit

- Put the bulb of the thermometer under the armpit, lower the patient's arm and have them keep their arm close to their chest.
- Leave the thermometer there for 5-7 minutes.

In the Rectum

- Lay the patient on their side, with the upper leg slightly in the flexion position.
- Place some lubricant on a piece of gauze and apply a thin film to the rectal thermometer.
- Ask the patient to breathe deeply to relax, separate their buttocks to expose opening of the anus and insert the thermometer gently to 3.5 cm.
- Let the buttocks return to their position and keep the thermometer in place for three minutes.

Reading the Thermometer

- Read the temperature while you hold the thermometer between your fingers horizontally at your sight level. Roll it slowly until you can see the mercury line clearly.
- Wash the thermometer with alcohol and soap and put it back in its place.
- Tell the patient what their temperature was and ask them if they have any questions.
- Provide appropriate health education.
- Record the result, time and site of measurement.
- Wash your hands.
- Inform the physician if the temperature exceeds 38°C.

Measuring Radial Pulse

The pulse is the pressure wave that is produced due to blood flow from the left ventricle to the aorta, and from the aorta to the arterial system. Normal adult pulse rate 60-90 beats per minute.

Objective

To correctly evaluate the rate, rhythm, and quality of patient's heart contraction.

Equipment and Supplies

- Watch with a second-hand
- Stethoscope (optional)
- Vital signs recording form

Procedures for Measuring Radial Pulse

- Wash your hands.
- Assure the patient and explain what you are going to do.
- Place the patient in a comfortable position.
- Using three fingers (index, middle and ring fingers) gently press over the artery, usually the radial.
- When you feel the pulse, begin to count it for 60 seconds. Be sure not to press too hard.
- Observe the rate and regularity of the pulse.
- If necessary, place the stethoscope at the heart apex and listen for 60 seconds.
- Record the pulse rate, rhythm and type.
- Tell the patient your findings, ask if they have any questions and provide appropriate health education.
- Wash your hands.

Conditions Requiring Careful Monitoring of the Radial Pulse

- · Patients with cardiovascular disease
- Patients receiving IV fluids
- Patients with localized or general inflammation
- Patients who have experienced trauma

Measuring Respirations

Respiration is the process by which the body is supplied by oxygen and expels carbon dioxide. Normal adult respiration rate is 16-20 breaths per minute.

Objective

To ensure the accurate reading and evaluation of the patient's rate, depth and type of respiration.

Equipment and Supplies

- Watch with second hand
- Stethoscope (optional)
- Pen

Procedures for Measuring Respirations

- Wash your hands.
- Measure respirations after measuring the patient's pulse, while fingers are still on the patient's hand.
- Count every complete inspiration and expiration.
- Count the patient's breaths for one complete minute.
- If appropriate, use the stethoscope to listen to and count the patient's respirations.
- If a spirometer is available, teach the patient to breathe in and out through it normally.
- Observe the respiration rate, depth, and regularity.
- Record the rate, depth, and type of respirations on the vital signs form.
- Inform the patient of the findings.
- Ask the patient if he or she has any questions, and provide appropriate health education.
- Wash hands.

Conditions Requiring Careful Monitoring of Respirations

- Emergency care patients
- Patients receiving oxygen therapy
- Patients with conditions effecting respiration
- Newborns

Preventing Dehydration with Oral Rehydration Solution (ORS)

All nurses should know and be able to teach mothers/parents the signs of dehydration and how to prepare ORS at home to prevent dehydration. Dehydration results when the body loses more liquid than it takes in. This can happen with severe diarrhea and/or vomiting. Dehydration develops more quickly and is more dangerous in small children.

In very severe dehydration the pulse may be rapid and weak, breathing may be labored and fever or even convulsions may be present.

Objectives

- 1. Recognize the signs of dehydration and rehydrate children using ORS.
- 2. Teach mothers to prepare and use oral rehydration solution to prevent dehydration.

Signs of Dehydration

- Thirst/dry mouth
- Little or no urine/or urine is dark yellow
- Sudden weight loss
- Sunken tearless eyes
- Sunken anterior fontanel in infants under 15 months
- · Loss of elasticity or stretchiness of skin

Home Therapy

Home therapy is appropriate when the child has no signs of dehydration. Explain the three rules of treating diarrhea at home to the mother.

Rule 1. Give the child more fluid than usual to prevent dehydration and continue to give these fluids until the diarrhea stops.

- Suitable fluids contain salt, such as ORS, salted rice water, yogurt, and chicken soup.
- Fluids that do not contain salt are unsuitable (*e.g.*, plain water, unsalted rice water, weak tea, sweetened drinks, very sweet tea, soft drinks).
- Fluids with purgative action and stimulants such as coffee are also unsuitable.

Rule 2. Continue to feed the child to prevent malnutrition. Continue breastfeeding; if the child is not breast-fed, give the usual milk. If the child is 6 months or older, or already taking solid food:

- Give cereal or another starchy food mixed, if possible, with pulses, vegetables, and meat or fish. Add 1-2 teaspoonfuls of vegetable oil to each serving.
- Give fresh fruit juice or mashed bananas to provide potassium.
- Give freshly prepared food. Cook and mash or grind food well.
- Give the same food after diarrhea stops and give an extra meal each day for 2 weeks.

Rule 3. Take the child to a health worker if the child does not get better in 3 days or develops any of the following symptoms.

- Many watery stools
- Eating or drinking poorly
- · Repeated vomiting
- Fever
- Marked thirst
- Blood in stool

NOTE: If the child will be given oral rehydration solution (ORS) at home, show the mother how to prepare and how much ORS to give. Provide her with a twoday supply of packets.

Making ORS at Home

ORS can be made at home using the packages provided at the health centers or in the pharmacies (directions on the package should be followed). Usually diarrhea is best treated by ORS/fluids and no medications are needed. Explain to the mother that she should treat diarrhea with liquids, ORS and frequent feedings. If the child does not improve after a few days and/or has symptoms of dehydration, consult the physician.

The Handful of Danger Signs

When visiting a home with a newborn or young infant, or when examining a baby in the health center that appears sick, there is an easy way to determine whether or not the situation is critical (whether a physician needs to examine the baby). On "The Handful of Danger Signs," each finger of the hand represents a symptom. You can teach the technique to parents as well.

Cardiopulmonary Resuscitation (CPR)

CPR is a combination of chest compressions and rescue breathing (breathing for the person). Rescue breathing supplies the oxygen the patient needs into the lungs and the chest compressions circulate the oxygen to the vital organs in the body.

Objectives

- 1. Ensure that nurses know and use appropriate procedures in administering CPR.
- 2. Understand the management of airway obstruction.
- 3. Know the definition and priorities in CPR.

Important Background Points

When the heart stops beating or beats too poorly to circulate blood properly, this is called "cardiac arrest." When cardiac arrest occurs, breathing soon stops. A person is considered to be in cardiac arrest when he or she is unconscious, not breathing, AND has no pulse. No pulse means that no blood is going to the brain. That means that the brain is not getting oxygen (carried in the blood) and the brain will soon die.

Even though a person in cardiac arrest is not breathing and has no pulse, the cells of the brain and other important organs continue to live for a short time (until the oxygen in the blood is used up). Without CPR, the brain begins to die in as few as 4 minutes. However, CPR provides only about a third of the normal blood flow needed and advanced medical care must be provided as soon as possible.

Main Causes of Cardiac Arrest

- Myocardial infarction
- Pulmonary embolism
- Trauma to chest or neck
- Severe allergic reaction (laryngospasm)
- Severe asthma (bronchospasm)
- Drowning
- Foreign body, especially while eating

The absence of a pulse is the MAIN sign of cardiac arrest!

CPR can be administered by one or two people. The technique used is slightly different in each case.

One Person Administering CPR

- Confirm that the patient is unconscious: try to rouse by shaking and shouting.
- Call for help if available.
- Position the patient so that he or she is lying flat on his or her back and on a level surface. CPR does not work as well if the patient is sitting up or is on a soft surface like a mattress.
- Assume a kneeling position midway between the patient's head and chest so that you can move easily from giving rescue breaths and chest compressions.
- Clear and open the patient's airway by tilting the head back and lifting the chin forward to move the tongue away from the back of the throat.
- Check to see if the patient is breathing by looking at the chest to see if it is moving up and down (lungs inflating) and listen for sounds of breathing for about 5 seconds.
- Give two breaths by mouth to mouth or mask and bag each lasting about 1 seconds.

Giving Mouth to Mouth

- 1. Pinch the patient's nose shut with the thumb and middle finger and make a tight seal around the patient's mouth with your mouth.
- 2. Breathe slowly and gently into the patient's mouth until you see the chest rise.
- 3. Pause between breaths to let the air flow out and watch the chest rise each time you give a breath to make sure your breaths are going in.
- 4. Check for a pulse (carotid) after giving the first two breaths.
- 5. If you feel a pulse but the patient is still not breathing give one breath about every 5 seconds.
- 6. If there is no pulse, lean over the chest and position your hands and begin chest compressions.
- 7. To find the correct hand position, find the notch at the lower end of the breastbone where the ribs meet.

- 8. Place the heel of one hand above this notch and place the other hand directly on top of it. Use the heel of your bottom hand to apply pressure to the breastbone.
- 9. Compress the chest by pressing straight down using the weight of your upper body, then release. Use a smooth even rhythm.
- 10. Keep your shoulders directly over your hands and your elbows locked (your arms should be straight).
- 11. Release the pressure on the chest and allow the chest to return to normal after each compression, without letting the hands lose contact with the chest.
- 12. As you do the compressions, count "one and two and three and four and five and six and…" Do 15 compressions in about 10 seconds (a little more than one compression per second).
- 13. After you give 15 compressions, tilt the head back again, lift the chin forward and give two SLOW breaths.
- 14. One cycle of giving 15 chest compressions and 2 breaths should take about 15 seconds.
- 15. Do four cycles of 15 chest compressions and 2 breaths (this should take about 1 minute) then check the pulse.
- 16. If there is still no pulse then continue CPR.
- 17. Re-evaluate the situation every 5 minutes.
- 18. Continue administering CPR until death is confirmed or you are too exhausted to continue.

Two People Administering CPR

- When two people administer CPR, one provides rescue breathing and the other administers chest compressions.
- The two people should coordinate breathing and chest compression by calling out the number of chest compressions to each other.
- Confirm that the patient is unconscious: try to rouse by shaking and shouting.

- Call for help if available.
- Position the patient so that he or she is lying flat on his or her back and on a level surface. CPR does not work as well if the patient is sitting up or is on a soft surface like a mattress.
- Each person should assume a kneeling position on opposite sides of the patient, midway between the head and the chest.
- Clear and open the patient's airway by tilting the head back and lifting the chin forward to move the tongue away from the back of the throat.
- Check to see if the patient is breathing by looking at the chest to see if it is moving up and down (lungs inflating) and listen for sounds of breathing for about 5 seconds.
- Give two breaths by mouth to mouth or mask and bag each lasting about 1 seconds.

Giving Mouth to Mouth

- 1. Pinch the patient's nose shut with the thumb and middle finger and make a tight seal around the patient's mouth with your mouth.
- 2. Breathe slowly and gently into the patient's mouth until you see the chest rise.
- 3. Pause between breaths to let the air flow out and watch the chest rise each time you give a breath to make sure your breaths are going in.
- 4. Check for a pulse (carotid) after giving the first two breaths.
- 5. If you feel a pulse but the patient is still not breathing, give one breath about every 5 seconds.
- 6. If no pulse, lean over the chest, position hands, and begin chest compressions.
- 7. To find the correct hand position, find the notch at the lower end of the breastbone where the ribs meet.
- 8. Place the heel of one hand above this notch and place the other hand directly on top of it. Use the heel of your bottom hand to apply pressure to the breastbone.

- 9. Compress the chest by pressing straight down using the weight of your upper body, then release. Use a smooth even rhythm.
- 10. Keep your shoulders directly over your hands and your elbows locked (your arms should be straight).
- 11. Release the pressure on the chest and allow the chest to return to normal after each compression, without letting the hands lose contact with the chest.
- 12. Administer 1 breath for every 5 chest compressions. Call the number of chest compressions out.
- 13. Continue administering breaths and chest compressions for 3-5 minutes, then stop and check for spontaneous breathing and a pulse.
- 14. Alternate positions (take turns administering breaths and chest compressions).
- 15. Continue administering CPR until death is confirmed or you are both too exhausted to continue.

Administering CPR to an Infant or Child

Infants and children usually only have respiratory arrest (stopped breathing) and may only need mouth-to-face breathing. The infant or child's airway may be blocked by food, a small object such as a coin or toy or fluids such as water (in drowning), saliva, or blood.

- 1. Clear and open the airway.
- 2. If necessary, administer abdominal thrusts by straddling the child's legs, position your hands by placing the heel of one hand on the middle of the abdomen just above the navel with your fingers pointing toward the child's head and the one hand on top of the other.
- 3. Confirm that the infant/child is unconscious: attempt to rouse by shaking and shouting.
- 4. Call for help if available.
- 5. Position the infant/child so that they are lying flat, on his or her back and on a level surface. CPR does not work as well if the infant/child is sitting up or is on a soft surface like a mattress.

- 6. Confirm the absence of spontaneous breathing then, tilt the infant/child's head back (to avoid getting air in the stomach), close the infant/child's mouth and seal your mouth around the infant/child's nose. Breathe SLOWLY into the infant/child just enough to make the chest rise.
- 7. Give 5 initial breaths. Each breath should last about 1 seconds.
- 8. Check pulse and confirm absence, and begin chest compressions. For an infant, use 2 fingertips; for a child, use the palm of one hand. Place your fingers/palm of the hand on the breastbone in the middle of the infant/child's chest. Give 5 chest compressions.
- 9. The 5 chest compressions should take about 3 seconds to administer.
- 10. Continue this cycle of 5 compressions and 1 breath for about 1 minute, then recheck pulse and breathing. Check every few minutes (at least every 5 minutes).
- 11. If pulse is absent, continue CPR until help arrives or the infant/child is declared dead.

CPR for Infants and Children

- Clearing airway especially important
- 2 fingertips for infant compressions
- Palm of one hand for child compressions
- Mild neck extension
- 5 initial breaths (instead of 2 in adults)
- Ratio of compressions to breaths 5:1

Remember to be gentle. Take extra care when administering CPR to infants and children. Their lungs and bones are more fragile than adults.

Care of Burns

Objective

To appropriately treat patients with burns caused by heat, electricity, or chemicals.

Important Points

- The severity of a burn depends on the temperature of whatever caused the burn and the length of time the patient is exposed to it, the burns location on the body, the size of the burn, and the patient's age and medical condition.
- Burns are described by their cause (heat, electricity, chemicals and radiation) or by their depth.
- A burn first destroys the top layer of skin. If it continues to burn, it injures or destroys the second layer of skin.
- When burns break the skin, they can cause infection and loss of fluid from the body. The body's ability to control its temperature and the patient's ability to breathe can also be affected by deep burns.
- A critical burn needs immediate medical attention and can be lifethreatening.

Burns are Considered Critical When They:

- Involve breathing difficulty
- Cover more than one body part
- Involve the head, neck, hands, feet or genitals
- Involve a child or elderly person (other than minor burns)
- · Are caused by chemicals, explosions or electricity

Caring for Burns: 3 Basic Steps

- 1. Stop the burning
- 2. Cool the burn
- 3. Cover the burn

First Degree Burn (superficial)	Second Degree Burn (partial thickness)	Third Degree Burn (full thickness)
Involves only the top layer of	Involves the top layers of the	Destroys all layers of skin and
skin	skin	may destroy fat, muscles,

Table 7. Burn Classification

		bones, and nerves underneath
Skin is red and dry	Skin is red and has blister that	Skin appears brown or black
	may open and weep clear fluid	(charred) and tissues
		underneath sometimes appear
		white
Usually painful	Usually painful	Extremely painful (or painless
		if nerve endings destroyed)
Burned area may swell	Burned area usually swells	Tissue too damaged to swell.
Healing usually within 5-6	Healing usually within 3-4	Healing process is long and
days	weeks	may take many months
No permanent scarring	Scarring may occur	Extreme, permanent scarring
		that may require multiple
		plastic surgery to correct.

Procedures for Burn Care

- 1. Explain to the patient what you are going to do in a reassuring manner. Patients with burns are usually very scared and in a lot of pain.
- 2. Act quickly, but be gentle and place the patient in a comfortable position, carefully and quickly removing any of the patient's clothing (if necessary) in order to inspect/treat the burned area.
- 3. Stop the burning by flushing the skin with large amounts of cool, clean water. Do not use ice or ice water other than on small superficial burns because ice causes body heat loss.
- 4. If the burned area cannot be immersed in cool water then apply soaked clean towels, sheets or other wet cloths (make sure that anything used is clean).
- 5. Keep the cloth wet and cool by adding more water as necessary.
- 6. After you have stopped the burning/cooled the burned area, follow the Surgical Dressing Procedure and apply a dry sterile dressing(s) to the burn.
- 7. Be sure that the dressing is LOOSE otherwise it can cause further pain and damage to the sensitive tissue.
- 8. Covering the burn helps prevent infection and reduces pain.
- 9. Do NOT break blisters if they are present because that can increase the risk of infection. Blisters protect the raw, delicate skin underneath.

- 10. Do NOT use any kind of ointment on a severe burn. Ointment may seal in the heat.
- 11. Provide health education to the patient and their family such as how to keep the burned area clean and dry and when to return for follow-up care.

General Care and First Aid Performance Checklists

Performance Checklist 8: Sterile Dressing Performance Checklist 9: Administering IV Fluids and Medications Performance Checklist 10: Administering Intramuscular and Subcutaneous Injections Performance Checklist 11: Measuring Blood Pressure Performance Checklist 12: Measuring Temperature in Infants and Children Performance Checklist 13: Measuring Adult Body Temperature Performance Checklist 14: Measuring Radial Pulse Performance Checklist 15: Measuring Respirations Performance Checklist 16: Preventing Dehydration with ORS

Performance Checklist 8: Sterile Dressing

Task	Achieved?		Comments
1 ask	Yes	No	Comments
1. Greets the client, explains the procedure and answers questions.			
2. Washes hands.			
3. Places the patient in a comfortable position and exposes the area around the wound.			
 Wearing disposable gloves, gently removes and disposes of old dressing. 			
5. Notes the condition of the wound (size, smell, secretions, and healing).			
 Removes gloves, disposes of them in the proper receptacle and washes hands. 			
7. Prepares the sterile dressing package, disinfectant and dressing material.			
8. Correctly places on sterile gloves.			
 Gently cleans the wound with disinfectant from the less contaminated to the more contaminated area. 			
10.Dries the wound and covers it with a piece of clean gauze, fixing it with adhesive tape, proportional with the size of the wound.			
11. Removes and disposes of gloves correctly.			
12. Washes hands.			
13. Gives the client instructions for wound care.			
14. Cleans and sterilizes instruments and puts them back in their correct place.			

Performance Checklist 9: Administering IV Fluids and Medications

Task	Achieved?		
	Yes	No	Comments
1. Greets the client, explains the procedure and answers questions.			
2. Makes the patient comfortable for the procedure.			
 Checks the IV solution or dose of the medication for defects, expiration date. 			
 Prepares supplies and places them on tray near patient. 			
5. Washes hands.			
6. Chooses the appropriate size needle.			
7. Connects the bag and fills the tubing with fluid.			
8. Wraps the rubber tourniquet approximately 10-15 cm above the injection site.			
9. Asks the patient to open and close hand and checks arm for a suitable vein.			
10. Chooses the appropriate site for the IV and cleans the site.			
11. Follows procedure for inserting the needle			
12. Releases the tourniquet, connects the tubing and opens the valve to begin the drip.			
13. Fixes the needle in place by using adhesive tape.			
14. Cover's the needle site with sterile gauze			
	Achieved?		
Task	Yes	No	Comments

15. Calculates the rate of dripping correctly and adjusts the flow.	
16. Labels the solution, showing drug, dose, starting time, duration, date, and patient's name.	
17. Makes sure that the patient is comfortable, reassures him/her and asks if they have any questions.	
18. Disposes of the used materials and needle correctly.	
19. Enters a detailed note on the procedure in the clients record.	
20. Observes for pain, redness, or swelling.	
21. Checks vital signs.	
22. Monitors the flow rate of IV solution.	

Performance Checklist 10: Administering Intramuscular and Subcutaneous Injections

	Achieved?		
Task	Yes	No	Comments

Performance Checklist 11: Measuring Blood Pressure

	Achieved?		~
Task	Yes	No	Comments

1. Greets the client, explains the			
procedure and answers questions.			
2. Washes hands.			
3. Assists the patient to get into a			
comfortable position with his/her arm			
supported and extended at the level of the			
heart and the palm of the hand upward.			
4. Rolls up the patient's sleeve.			
5. Wraps the cuff around the arm 2.5 cm			
above the elbow joint, with the tubes of			
the cuff at the nearest side to the elbow.			
6. Presses the cuff to empty the air.			
7. Places the index, middle and ring fingers			
over the brachial artery.			
8. Shuts the valve and pumps the			
cuff with air until the brachial pulse			
cannot be palpated.			
9. Pumps the cuff 30 mm Hg higher than			
the level of the absent pulse.			
10.Holds the stethoscope over the			
brachial artery.			
11. Lets the air out of the cuff at the rate of			
2-3 Hg per second until the first beat			
(systolic pressure reading) and continues			
letting the air out until the beats stop			
(diastolic reading).			
12. Lets the air out completed and removes			
the cuff.	ļ		
	Achie	eved?	
Task			Comments
	Yes	No	
13. Informs the patient of the BP			
reading and answers questions			
14. Records the systolic and diastolic			
pressures and compares current level to			
prior measurements.			
15. Washes hands.			
16. Informs physician of any			
abnormal results.			

Performance Checklist 12: Measuring Temperature in Infants and Children

Task	Achieved?		C i
	Yes	No	Comments
1. Greets the client and inquires about the purpose of the visit.			
2. Reviews child's record.			
3. Washes hands.			
4. Gently places the child on a clean exam table.			
5. Cleans and rinses the thermometer.			
 Shakes mercury down until mercury level is below 35°C. 			
 Applies lubricant on a swab and lubricates bulb end of thermometer 2.5 cm. 			
8. Lays infant on his/her back, holds both ankles with one hand and raises legs to expose anus.			
9. Lays child on his/her left side with his/her leg flexed in a rectangle.			
10. Wipes the anus clean with a dry cotton swab.			
11. Gently and slowly inserts the thermometer into the anus and holds in place for 2 minutes.			
12. Removes thermometer gently and wipes thermometer to remove lubricant.			
13. Wipes anus with clean dry cotton swab to remove excess lubricant.			
14. Helps the infant/child assume a comfortable position and asks mother to redress the child.			
Tesh	Achieved?		Comments
Task	Yes	No	Comments

15. Reads and records the temperature on child record.	
16. Informs mother of her child's	
temperature and asks if she has	
any questions.	
17. Provides appropriate health education	
messages on child health, nutrition, hygiene,	
and vaccinations.	
18. Cleans the thermometer with	
cotton swab with soap and water, then	
rinses with water from tip to bulb end.	
19. Shakes the thermometer	
safely until the mercury goes	
below 35°C and places it in the	
disinfectant solution.	
20. Washes hands.	

Performance Checklist 13: Measuring Adult Body Temperature

	Achieved?		
Task	Yes	No	Comments

1 Crusts the alient of 1 1			
1. Greets the client, explains the procedure			
and answers questions.			
2. Washes hands.			
3. Cleans the thermometer.			
 Shakes the thermometer quickly and firmly to reduce the mercury level below 35°C. 			
Taking Temperature			
1a. Orally			
• Waits 15 minutes if the patient has taken			
a hot drink or smoked.			
• Places the thermometer under the			
patient's tongue.			
• Tells the patient not to place their teeth			
on the thermometer.			
• Removes the thermometer after 3-4			
minutes.			
1b. Under the Arm			
• Places the bulb of the thermometer			
under the armpit.			
• Asks the patient to keep their arm close			
to their chest.			
• Removes the thermometer after 5-7			
minutes.			
1c. Rectally			
• Asks the patient to lie on their side with			
the upper leg flexed.			
• Lubricates the thermometer.			
• Gently inserts the thermometer into the			
anus approx. 3.5 cm.			
• Removes the thermometer after 3			
minutes.			
2. Reads the temperature while holding the			
thermometer horizontally at the sight			
level.			
3. Informs the patient and answers			
questions.			
	Achieved?		
		Comments	
	Yes	No	

4. Provides appropriate health messages/education.	
5. Washes the thermometer with soap and cold water and puts it back in its place.	
 Records the temperature in the patient's chart, along with the time and site of measurement. 	
7. Washes hands.	
 Informs physician if patient's temperature exceeds 38°C. 	

Performance Checklist 14: Measuring Radial Pulse

Task	Achieved?		
	Yes	No	Comments
1. Greets the client, explains the procedure and answers questions.			
 Washes hands. Uses the index, middle and ring fingers to gently press over an artery (usually radial). 			
4. Counts the pulse for 60 seconds.			
5. Notes the rate and regularity of the pulse.			
6. Informs the patient the finding and asks if he/she has any questions.			
7. Records the pulse rate, rhythm and type in the patient's record.			
8. Provides appropriate health messages/education.			
9. Washes hands.			

Performance Checklist 15: Measuring Respirations

Instructions: Observe practices followed at the health center. For each of the tasks listed below, place a check in the "Yes" or "No" box, as appropriate, to indicate whether or not the task was achieved. If a particular task is not applicable, enter NA ("not applicable") in the "Comments" column. Use the "Comments" column to note details about why a particular task was not achieved or other information that may be useful in identifying or resolving inappropriate practices.

Task	Achieved?		Guunanta
	Yes	No	Comments
1. Greets the client.			
 Measures respirations after measuring the patient's pulse while the fingers are still on the patient's hand. 			
 Counts every inspiration/ expiration cycle for one complete minute. 			
 Observes the respiration rate, depth and regularity and records the result. 			
5. Informs the patient of the findings and answers any questions.			
 6. Provides appropriate health teaching/messages. 			
7. Washes hands.			

Performance Checklist 16: Preventing Dehydration with Oral Rehydration Solution (ORS)

T 1	Achieved?		-
Task	Yes	No	Comments

1. Greets the client and discusses the	
purpose of the visit.	
2. Reviews the client record.	
3. Obtains the following historical	
information on the diarrhea episode:	
duration, frequency, consistency of stools,	
child's fluid intake.	
4. Washes hands.	
5. Gently examines the child for signs of	
dehydration:	
• Dry mouth	
• Dark yellow urine (if child has a diaper,	
if not asks mother about color of child's	
urine)	
• Sunken, dry eyes	
• Sunken anterior fontanel (if infant)	
 Loss of skin elasticity 	
Rapid pulse rate	
Rapid respiration rate	
6. Weighs infant and compares	
current to previous weight.	
7. Explains to mother how to make and	
give ORS.	
8. Educates mother on the signs of	
dehydration.	
9. Encourages breastfeeding mother to continue	
breastfeeding as frequently	
as possible	
10. Asks mother if she has any questions.	
11. Informs mother about the need for	
follow up visit	
12. Asks mother about her own	
health, and refers her for follow-up if	
necessary.	
13. Washes hands.	

Recognizing Signs of Acute Illness

Heart Attack

Objective

To recognize the signals of a heart attack so that patients can be referred promptly for medical treatment.

Important Points

- It is important to immediately recognize the signs of a heart attack and seek medical attention.
- Most patients who die of a heart attack die within two hours after the first signals appear.
- Patients sometimes delay seeking medical care when they are having a heart attack because they think that the pain they are feeling is from indigestion or a muscle spasm.

The major sign of a heart attack is pain or discomfort in the chest that does not go away!

- Heart attack pain is usually felt in the center of the chest, behind the breastbone and may spread to the shoulder, arm or jaw.
- The pain is CONSTANT and is usually not relieved by resting, changing position or taking medicine.
- The person may describe the pain as pressure, squeezing, tightness, aching, or heaviness in the chest. The person may also have difficulty breathing and may breathe faster than normal as the body tries to get more oxygen to the heart.
- The patient's skin may be pale and bluish, especially around the face and they may experience sweating.

PAIN	BREATHING	PULSE RATE	SKIN
Persistent chest pain or	Breathing is noisy and	Pulse may be irregular	Skin may be pale or
discomfort	difficult		bluish in color
Not relieved by resting,	Patient is short of	Pulse may be faster	Patient's face may be
changing position, or	breath	than normal	moist, pale or bluish
oral medication			
Pain may range from	Breathing is faster	Pulse may be slower	Patient may be
discomfort to unbearable	than normal	than normal	sweating profusely
crushing sensation			

Table 8. Signals of a Heart Attack

Asthma

Objective

To recognize the signs of acute respiratory distress associated with asthma, so that patients can be referred promptly for medical treatment.

Important Points

Asthma should be considered in the following situations:

- Patient presents with episodic wheeze, chest tightness, or shortness of breath.
- Symptoms worsen at night, while exercising or in the presence of allergens or irritants.
- Allergic rhinitis or atopic dermatitis are present.
- Wheezing develops with known triggering factors such as infection, house dust mites, exercise, smoking, and other irritants such as animals.
- The patient has a family history of allergies, asthma, sinusitis, or rhinitis.

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