# **LECTURE NOTES**

# First Aid Management and Accident Prevention

For Health Extension Workers



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Jimma University

In collaboration with the Ethiopia Public Health Training Initiative, The Carter Center, the Ethiopia Ministry of Health, and the Ethiopia Ministry of Education

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This material is intended for educational use only by practicing health care workers or students and faculty in a health care field.

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# INTRODUCTION

In our daily life we may see that people have been suffered and died due to the cause of various accident and health related problems. Accident is one of the leading causes of mortality and morbidity in the developing country especially in Africa particularly in Ethiopia due to different factors.

Ethiopia has got the high coverage accident Episode, therefore, this lecture note outlines the most practically managing victims with different types of accident which should be carried out at community level to save life until the victim is referred to the health center or Hospital.

In our daily life, we may see that people have been suffered and died due the cause of various accident.

First aid is the initial treatment or help given to sick particularly injured individual before professional medical care becomes available with the materials at hand. Such intervention aims in reducing the situations that threaten the victim until a professional arrives or the sick individual is brought to \health facility.

In short this lecture note is designed to develop the capacity of health extension students and enable them to manage and prevent accident at community level and refer when necessary so that mordity and mortality rate be reduced and controlled.



# **UNIT ONE**

# **Learning Objective**

**General Objectives**: The aim of the first-aid treatment or management of Health Extension Package is to give life saving treatment and to prevent accident as well as emergency illness at community setting or environment.

# Specific objectives

At the end of each topic the health extension package students will be able to:

- Describe first aid and the role of first aide
- Describe the purpose of emergency care.
- Out line steps of emergency care.
- Provide first aid for the causality and suddenly ill individuals.
- Identify the emergency situations.
- Differentiate problems of pregnant woman and every labor mgt.
- Use appropriate, knowledge skill and materials while helping the causality
- Equipping the HEPW with basic knowledge, and skill.
- Differentiate between emergency situation and other use.

- Practice how to transport the causality.
- Give first aid treatment for diarrheal problems.
- Provide first aid management for fever related disease.
- Give first aid management for patient who is suffering Ethionia with Epilepsy.

# Purpose of first aid treatment

- To keep the injured or ill person alive
- To prevent the injured condition from becoming worse
- To help him/her to recover
- To sustains life

## What does first aid knowledge & skill mean?

- The difference between life and death
- The difference between temporary and permanent disability
- The difference between rapid recovery and hospitalization

## Steps in giving emergency care:

Look at the general situation of the causality quickly Decide what is wrong and how severe or dangerous the injury is

Give the appropriate first aid

Notify your senior and arrange transport to hospital or health center

Give follow up care during Journey.

# Simple and basic question for first aider working in the community

Who will do first aid for causality who is in emergency condition?

Any first aider who is equipped with principle of first aid management

Why? To save life

When? At any time when injury occurs

Where? Any where or place

To whom it is applied? To all who needs to be helped

## What is first aid?

First aid is the treatment given when an accident or sudden illness occurs or immediate care given to a person who has been injured until he / she is taken to health facilities.

## Characteristic of a first aider

Must be a good observant: -

Resourceful; - she/he may use to the best advantage who ever and what ever is at hand to prevent further damage

Tactful: - She/he may, with out the ought less questions, learn the symptoms and history of the case, and secure the confidence of the causality, and the bystanders in the treatment of the causality.

Dexterous; - that she/he may handle a causality without causing unnecessary pain and use appliances efficiently, quickly and neatly

Explicit; - that he/she may give clear instructions to the causality and for the by standers how best to assist him

Persevering: - that she/or may continue his efforts, though not at first successful, until relieved by a superior medical authority, or death of the causality is undoubted

Discriminating: - that she/he may decide which of several causalities and injuries should be treated first and where modification of the correct treatment as the result commonsense, may be necessary.

Sympathetic: - that she/he may give real comfort and encouragement to the suffering, always remembering the first avisilin, principles of humanity.

## The scope of first aid tretement:

- Assessing the situation
- Diagnosing the problems
- Giving immediate treatment
- Referring of the causality to higher health institutions

# A. By observation:

- Cheek for any external bleeding and determine whether the bleeding is severe or not
- Check for breathing pattern and determine whether there is respiratory problem or not.

Bleeding and respiratory problems are the top Note: urgent emergency conditions that need fast decision and action.

## B. Brief Examination of patient

First check:

- Breathing (Listen and look at rise and fall of the chest)
- Color of skin (darks skin due to shortage of oxygen)
- Circulation of blood (by taking pulse and blood pressure)
- Pupils of the eye (large, small, altered with light)

# C. Check parts of the body:

Look carefully and quickly of each part of the body in the · svilgij following order or steps:

- Head
- Back
- Neck
- Arms, hands, fingers
- Chest

- legs, feet, toes
- Abdomen

## D. Look for:

- gan Ethionia pung Signs of internal damage to organ
- Burns
- Dislocation (broken bone)
- Wounds
- Dislocation (bone put out of place)
- Fracture
- Sprain
- Strain

# **UNIT TWO**

# **Respiratory Emergencies**

**Definition:** A respiratory emergency is one in which normal breathing stops or in which breathing is so reduced that oxygen in take is insufficient to support life.

N.B. Artificial respiration: is a procedure for using air to flow in to and out of persons. Lungs when natural breathing is inadequate or stops.

# Common causes of respiratory failure (problems)

- Obstruction of the air way by tongue is dropping back
- Inhalation of a small amount of food, smoke, irritation, foreign objects, carbon monoxide, etc.
- Compression of the neck
- Respiratory disease
- Drowning
- Strangulation
- Combustible gases

## Sings and symptoms

- Un able to breath
- SVİLBİLİLI ÜLLİŞ Loss of consciousness
- General pallor (paleness)
- Difficult in breathing
- May be no visible breathing

#### First Aid management of Respiratory problem

- Shout for help (depend on the condition)
- Determine the consciousness of the causality by taping the victim on the shoulder and asking loudly "Are you oky!"
- Assess and ensure that patient air way is clear
- Place the patient flat on his back with the head turned to one side
- Remove any thing which is preventing the taking in of air (Remove constraints from the neck)
- Kneel beside the patient's head place one hand under his neck and the other hand under his lower Jaw extend his head and neck gently back ward. This prevents the tongue from falling back in to the throat.
- Place your cheek and ear close to the victim's mouth and Nose. Look at the victim's chest to see if it rises, falls, and listen and fell for air to be exhaled for about 5 seconds.
- If there is no breathing pinch the victim's nostrils shut with thumb and index finger of your hand that is pressing on the victim's forehead. This action prevents leakage of air when the lungs are inflated through the mouth.
- Take very deep breath and hold it.

- Fit your mouth tightly over the patients open mouth and forcibly in to the lungs
- While carrying out respiration, check the patient's pulse every 2 or 3 minutes to ensure the heart has not stopped.
- Continue the breathing procedure at the rate 12 to 18 breaths per minute until the chest is seen to rise and the patient is breathing for him self or until is certain his is dead.
- If a patient is child, our mouth should cover both his nose and mouth. Very gentle breathing should be used and the younger the child, the gentler this should continues at a rate of 25 breaths per minute.

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Once the patient can breathe by him self/her self place him/her in what is called the recovery position.

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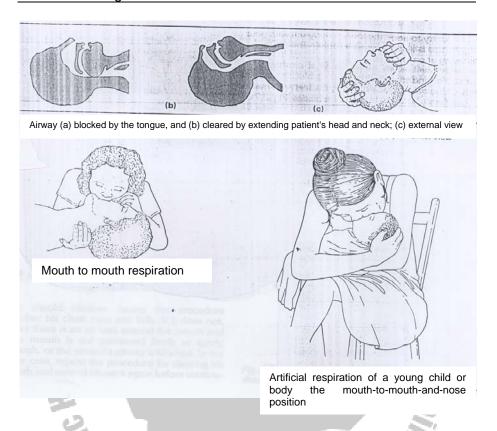


Fig. 1 . How to give artificial respiration and positioning of casualty

- If mouth to mouth is failed and no pulse cardiopulmonary resuscitation is followed. Cardiopulmonary resuscitation (CPR) or heart lung resuscitation is a combined effort to maintain circulation and breathing.
- Is an emergency procedure applied when heart and lung actions have stopped.

- During CPR you will have to perform procedures to:
- Maintain an open airway to maintain circulation
- Breathe for the patient and force the patients blood to circulate.

## **Procedure**

If one First Aider

- Establish unresponsiveness and alert for emergency medical service and
  - Position the causality.
- 2. Establish an open airway.
- 3. Look, Listening, and feel for breathing (3-5 seconds).
- 4. Ventilate twice (1 to 2 seconds) per breath.
- 5. If no pulse (5-10 seconds)
- 6. Locate Compression site
- 7. Position your hands
- 8. Began compressions
- 9. Ventilate twice
- Recheck pulse after 4cycls of ventilation, then every few minutes.

## If two first aider rescuer CPR

- 1. Determine unresponsiveness
- 2. Open the air way, look, listen, (feel 3-5 seconds)
- 3. Ventilate twice (1 -2 seconds per breath).

- 4. Determine no pulse and locate CPR compression site
- 5. Say "No pulse." Begin compressions
- 6. Ventilate once (1-2 seconds) Stop mouth-to-mouth ventilation.
- 7. Continue with one ventilation every five compressions.
- 8. After 10 cycles, reassess breathing and pulse. No pulse says, "Continue CPR." Pulse- says, "Stop CPR."

NOTE: Assess for spontaneous breathing and pulse for 5 seconds at the end of the first minute, then every few minutes there after.

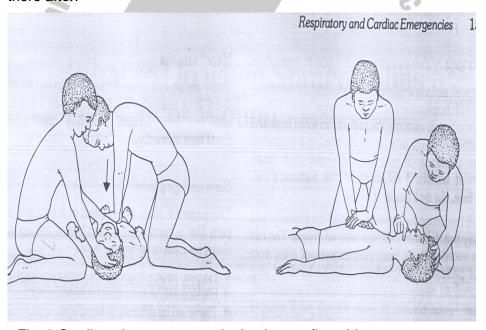


Fig. 2.Cardio pulmonary resuscitation by two first aider

# Choking

When small piece of food or foreign body may be inhaled in to the windpipe when eating in which some times help is needed

# First aid management

N.B. Do not try to hook the foreign body out with your fingers. This is likely to push it further down.

# For babies and small children:

Hold the baby upside-down by the feet and beet him/her timely between the shoulder blades.

Lie the child face down over your knee or arm and beet them sharply between the shoulder blades.

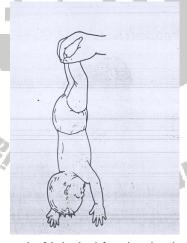


Fig. 3 Removal of inhaled foreign body in a baby

<u>For adults:</u> there are two methods depending up on your knowledge and practice

<u>"Methods A"</u> stand behind the patient and hold around the chest just under the chest hone

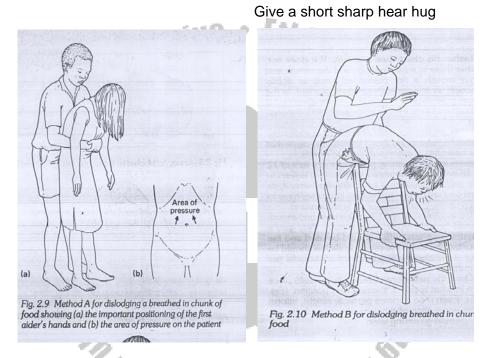


Fig. 4.2.Method B removal of inhaled foreign body in adult

"Method B" Tell the patient to lean over the back of a chair holding on to the seat and the tenanting him/her sharply 3 to 4 times between his shoulder blades which ever the method you use the foreign body should be coughed out

- If the breathing has stopped begin mouth to- mouth respiration
- After you have done the above, refer to the nearest hospital or health the Center



# **UNIT THREE**

# **Drowning**

## **Definition**

Death caused by water reaching the lungs and either causing lung tissue damage or spasms of the air way that prevents the inhalation of air.

Drawing can happen in many different places, Lake, swamp and spring, rivers etc

# First aid Management:

- You should begin artificial respiration as soon as possible
- Do not wait to get water out of the patient's chest first
- If you can not get air into his/her lungs, quickly turn the patient on his/her side, putting his head lower than the leg and push the body
- Then give mouth-to-mouth artificial respiration.
- If the condition of the victim is not improving refer the victim to the next health facility.

# **UNIT FOUR** Wound

Definition: Wound\_is breaking in continuity to tissue of body, Ethionia either internal or External

# **Classification of Wound**

- 1. Open: An open Wound is a break in the skin or mucous membrane
- 2. Closed: A closed wound involves injury to underlying tissue with out a break in the skin or mucous membrane.

# **Types of Wounds**

- Abrasions
- Incisions
- Lacerated
- **Punctures**
- **Avulsions**

## Common Causes

# Cause or resulting in open wounds from:

- Motor accidents
- Fall
- Mishandling of sharp objects, tools and machineries

# The main aims when dealing with wound

- To control the wound stop bleeding
- To treat and prevent shock
- natic.
  Ethiomia To protect the wound from contamination and infection
- To prevent complication
- Obtain medical attention

## Prevention of contamination and infection

- Hand washing before and after wound care (when possible)
- By avoiding contamints
- By using lean materials as much as possible E.g. cotton gauze, towels etc...
- Wash in and around the victim's wound to remove bacteria and other foreign Matters
- Wash the wound thoroughly by flushing with clean water, preferable running tab water
- Apply a dry sterile bandage or clean dressing and secure it firmly in place
- Small wounds even can be taken care at home
- If their is infection refer the victim to the health center

# UNIT FIVE Bleeding

Definition: Defusing or oozing of blood from blood vessels (Hemorrhage)

# Types of bleeding

- Arterial bleeding- bright red in color, flow from the wound inside
- Blood loss
- Venous bleeding dark red in color, flow is steady
- Capillary bleeding –oozing from bed of capillaries, red in color, usually less bright than arterial blood with slow flow.

# Methods of controlling bleeding externally

- Direct pressure- using compresses
  - Pressure bandage can be placed to hold pads of cloth.
  - Put a thick pad of cloth held between the hand and wound.
- Elevation
  - The injured part of the body should be raised about the victim's heart
- Applying pressure on the supplying artery specially on brachial artery in severe bleeding,

• Apply tourniquet in sever bleeding



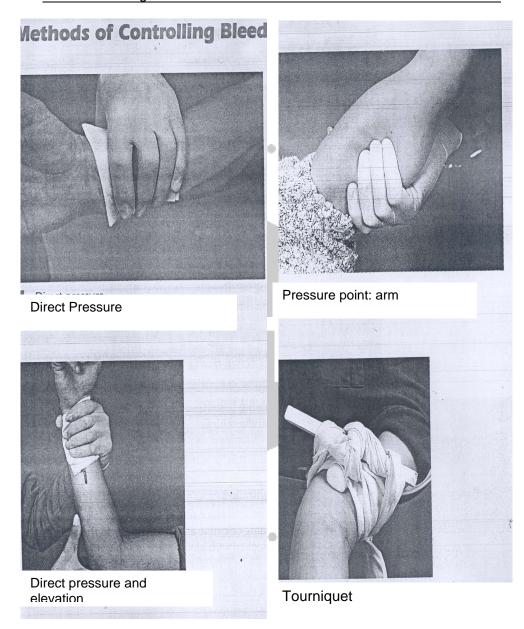


Fig .5. Methods of controlling Bleeding

# **UNIT SIX**

# **Shock**

**Definition:** The reaction of the body to the failure of the .o blood v circulatory system to provide enough blood to all-the vital origins of the body.

#### Cause:-

- -Trauma
- -Heart failures
- -Sever bleeding
- -Loss of plasma in burns or crushing injures
- -Allergy
- -Loss of body fluid- recurrent vomiting from any cause

# Symptoms of shock

- General body weakness the most significant symptoms
- Nausea with possible vomiting
- Thirst
- **Dizziness**
- Restlessens, and fear /sign of shock/
- Fast breathing and shallow
- pulse rapid and weak
- 8. Pupils dilated
- Face pale

- Lips-blue
- Restlessness, become unresponsive
- Skin- cool and clammy- eyes- lack luster
- Breathing rapid and shallow

## First aid management of shock

- Have the patient lie down and stay at rest
- Keep the air way open and preventing the forward tilting of the head
- Control External bleeding
- Keep the patient warm by covering with blanket or sheet
- Properly position the patient
- Open air way and alert for vomiting

If there is no spinal injuries use one of the following positions

- Elevate the lower extremities, place patient place patient-flat, face up, and elevate the legs 8 to 12 inches
- Do not tilt the patient's body
- Don not elevate any fractured limb unless they have been properly splinted
- Do not elevate the leg if there are fractures to the pelvic
- Nothing by mouth (NPO)
- Monitor the patient vital signs
- Refer the patient to Hospital

# **UNIT SEVEN**

# **Unconsciousness**

**Definition:** victim is said to be unconscious when the patient is asleep, he/she cannot speak and has no control over his movement. Victim also cannot respond to place, people and time (PPT)

# Cause of unconsciousness

- Head injury (bleeding)
- Fainting
- Heart attacks
- Asphyxia
- Poisoning
- > Shock
- Epilepsy
- Diabetes

# Aim of giving first aid

- To find out the cause of the condition and manage it as quickly as possible
- 2. To refer to Hospital

#### Level of unconsciousness

- Alertness: the patient can speak, answers, questions and feels pain
- Lethargy :the patient is awoke but answers questions slowly- he may be confused about what is happening and where he is
- Drowsiness: the patient is sleep of ht is unable to concentrate on what we are saying
- Semi-consciousness: the patient is very sleep of and has great difficulty in speaking and in answering your questions
- Unconsciousness: the patient is sleepy we can not speak and has no control his movements

#### **Treatment of unconscious Patient**

During treatment of unconscious patient follow principles of A,B,C,D, i.e.

- Assessing air way
- check breathing
- check circulation using or by taking Vital sign
- check for any bleeding and attempt to stop bleeding
- If the victim is improving place in Recovery position
- Do not give to an unconscious victim any thing by mouth
- Establish level of responsiveness, check pulse, breathing rate and record any observations
- Give priority to respiratory problems and hert beat.

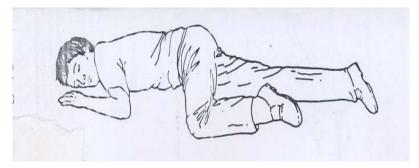


Fig .6. Recovery position of unconscious patient.

# **Bandaging and Dressing**

Made from flannel, elastic net or special paper cotton cloth

- Bandages are used-
  - To hold splint in proper place
  - To maintain direct pressure over dressing to control bleeding.
  - To retain dressings and splints in position
  - To prevent or reduce swellings
  - To restrict movement etc
- -Bandage should never be used directly over a wound
- -Bandaging a wound should be applied firmly enough to keep dressing and splints in position

# The common types of bandages

- Triangular bandages
- Roller gauze bandage
- Elastic bandage

- T- blinder bandage
- Many tailed abdominal bandage
  - Bandage should not be tight, may cause injury to the part or impair circulation of blood
  - Lose bandage is also useless

## **Dressings**

A dressing – is protective covering applied to a wound to:

- -Prevent infection
- -Absorb discharge
- -Control bleeding

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- -Avoid further injury
- An efficient dressing should be sterile (germ free) with high degree of porosity and allow for oozing of discharge of fluid.

# **UNIT EIGHT**

# **Fracture**

## Fracture:

Description: Is a brakage of bone tissue or discontinuation of bone tissue due to different causes or accidents.

Possible cause:

- 1. accident / trauma
- 2. pathological due to bone infection
- 3. tumor of the bone

## **Types of Fracture**

- closed
- open
- compound/complicated

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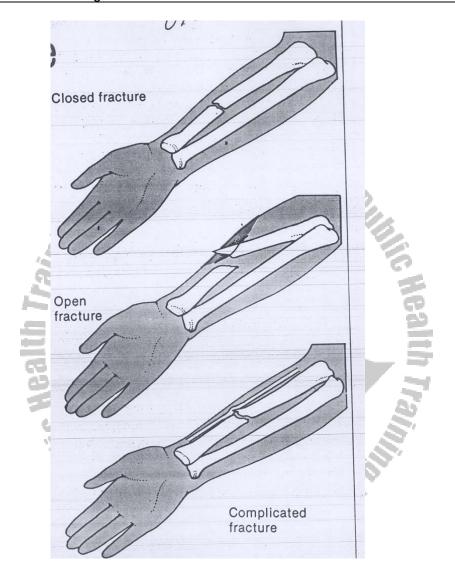


Fig.7. Types of fracture.

### Sings and symptoms of fracture:

- Pain
- Swelling
- -Deformity
- -Numbness or tingling sensation
- -Discoloration

- protruding of the parts
- mispositions
- Unable to function
- Patient may shout due to severe pain

# Complications

Immediate complications

- Hemorrhage/ bleeding
- Severe pain
- vinion annie de la constant de la co Hypotension (shock) due to bleeding

# Late complications

- Disability
- Disfiguring
- Deformity
- Malunion
- Delay in union

### **General First aid management of Fracture**

- Assess carefully but by fast
- Check respiratory condition
- Check bleeding / hemorrhage
- Consider the amount of loss
- Determine and arrange referral
- Asphyxia, bleeding, and severe wounds must be dealt with before treating any fracture
- Support the injured part with supporting device, immobilize the fracture, bandaging and use splints
- Refer the patient to hospital urgently

**NB**: Proper immobilization is important to prevent further trauma, pain and

complications.

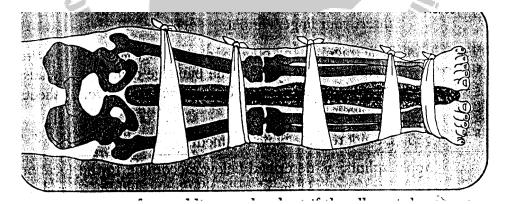


Fig.8.Immobilization of an injured part with bandage.

# **UNIT NINE**

### **Dislocation**

**Definition:-** When bone is no more in an anatomical position or the displacement of one or more bone at a joint.

#### Cause:-

- -Strong force acts directly or indirectly on a joint
- Sudden muscular contraction

N.B:- Joints which are most frequently dislocated are

- shoulder, elbow, thumb, finger, Jaw

## Signs and symptoms

Pain, near the joint, victim can not move it, deformityabnormal appearance, swelling and brusy are usually present

#### First aid and manage:-

- support and secure the part in most comfortable position
- obtain medical aid at once
- Do not attempt to replace the bones to normal position

Note: - The causes,

the signs and symptoms

- First aid management, quite similar to fracture.

NB. Do not delay to refer patient with fracture or dislocation since proper investigation and management is done at hospital

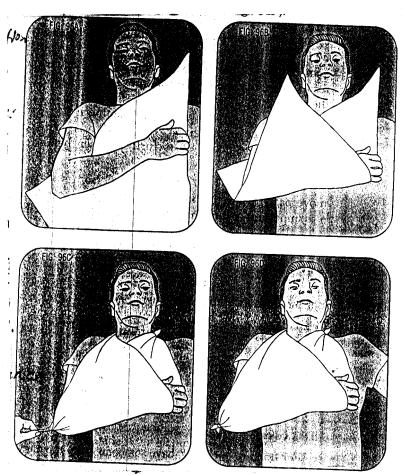


Fig.9. Elbow dislocation

# **UNIT TEN**

# **Strain And Sprain**

#### **Strain**

**Definition**: over stretching of muscles due to over pulling of muscles.

#### Causes:

- · Lack of pre- exercise before doing sport activity
- Lifting of heavy loads
- Lifting of heavy weight
- The most common one is back strain.

## Signs and symptoms

- Pain (sudden sharp pain at the site of the injury)
- Stiffness of muscles
- Difficulty in moving the affected parts

### **Management and First Aid**

- Place the victim in the most comfortable position
- Cold compress during fracture phase Warm compress (physiotherapy)
- Ant pain support and elevate the inured part or limb and give antipain
- If not improved refer the victim

 In case of back strain use a hard board under the bed or lay the victim down on a firm surface

## **Sprain**

**Definition**: An injury which occurs at a joints when the ligaments and tissue around particular joints are suddenly twisting or torn.

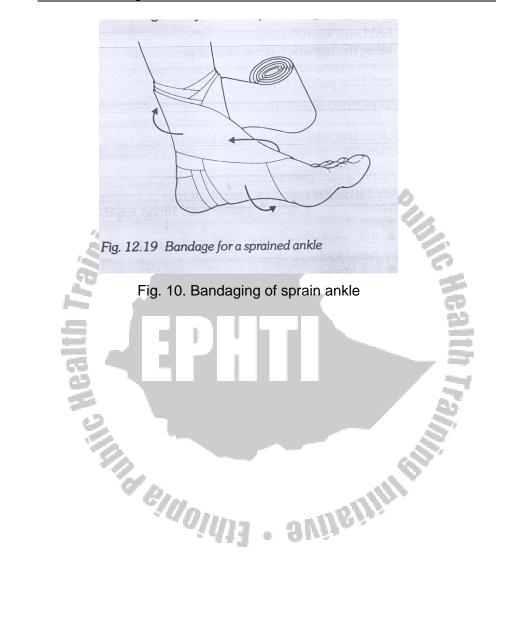
- Sprain is more severe than strain
- It usually happens or occurs at joint especially at ankle joint.
- It might involve bone (broken)
- Sprain is also tearing of ligaments

## Signs and symptoms

- Pain specially on movement
- Swelling
- Loss of movement

#### Treatment:

- -Raise the limb
- -Put on a cold compress
- -Renew the compresses when they get warm and dry
- -Support the joint in most comfortable position with bandage
- -Bandage firmly with figure of eight bandage
- Refer for further treatment



# UNIT ELEVEN Burn of the Body

Fire is an accident that causes great damage to life and properties. Children are the most vulnerable to burn. Burns that occur around the mouth and nose and in general in the face are more dangerous and can cause death.

### Causes of burns:

- Fire, boiled water, steam, boiled oil and milk etc;
- Sun-rays;
- Electric and thunder accidents; and
- Different chemicals;

Effects/hazards of the burn accident:-

### Immediate effects/hazards:-

- Burns and wounds of the body;
- Severe pain;
- Oozing and reduction of body fluid from the wound;
- Difficulty in breathing because of suffocation from smoke, severe burns around the throat and face; and
- Drowziness, restlessness and unconsciousness.

### Delayed effects/hazards:

- Infections of the wound, septicemia, and high fever;
- Disability;
- Scar;
- Contracture; and
- · Tetanus infection

## Classification of burns:

Burns are usually classified in three levels based on the depth or degree of skin damage. These are:-

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- First degree burn;
- Second degree burn, and
- Third degree burn.

# 1<sup>st</sup> degree burn:

- · Redness or discoloration;
- Mild swelling and pain; and
- Rapid healing.

# 2<sup>nd</sup> degree burn:

- Greater depth than first degree burns;
- Ethiomia Pulle Redness and mottled appearance;
- Blisters;
- Severe pain;
- Swelling; and
- Prone to infection.

# 3<sup>rd</sup> degree burn:

- Deep tissue distraction;
- White appearance;
- No pain and blisters; and
- Complete loss of all layers of skin.

This type of burn results in severe disability and/or death.

## First-aid measures:

applications, immerse the burned area in cold water role the burned person on the ground, or cover with water socked thick cloth or blanket and put out the If the accident is of electric source, quickly fire.

- disconnect at the electric meter or check point, or use rope wooden stick, dried cloth etc. to disconnect;
- Move the victim from the accident place to avoid further injury;
- Loosen and/or remove burned dresses and lay down the victim on his/her back and let him/her breathe fresh air and ensure that no foreign objects have entered and blocked the passage of the respiratory system;
- If the victim is not breathing properly, initiate mouth to mouth artificial respiration;
- Thoroughly check the wound to determine the size, and the degree of burn;

# Measures for 1<sup>st</sup> degree burn:

- Apply cold water application or submerge the burned area in cold water;
- If the wound is minor and small, clean daily the area with boiled cold water cover it with clean cloth to prevent contact with flies, if the wound located is in a joint, immobilize the joint area until the wound is cured;
- If the wound is from boiled water, chemical (acid), take out his/her dress and cover it with clean cloth.

# 2<sup>nd</sup> and 3<sup>rd</sup> degree burn:-

- Cover the wound with clean cloth;
- If the victim is conscious, his/her respiratory parts such as mouth, nose and throat are free from burn injury and give him/her frequently plenty of liquid such as ORS or similar solution (prepare the solution from eight tea spoons of sugar, one spoon salt in one liter of boiled cold water). If the victim is a child below two years old give it one spoon every two minutes and if the child is over two years give it with a cup or glass in small amount every two minutes;
- Advise the victim or his family to get tetanus toxoid vaccine;
- Refer the victim to the nearest health facility.
- Take immediately to a nearby health facility burn victims with the following signs:
  - First degree burn with sizeable area;
  - 2<sup>nd</sup> and 3<sup>rd</sup> degree burns;
  - If the victim is drowsy, restless and has breathing problem;
  - If the victim has burns on his face, eye, extremities, joints and around genital organs;

- If the source of the burn is electrical, chemical or thunder;
- If the patient has chronic disease such as epilepsy, diabetes etc.; and
- If the burn accident is on elderly persons or children,

#### Follow up and education on preventive measures:

- Educating on the consequence of severe burns and the importance of referring the victim to a nearby health facility;
- Education to prevent using harmful foreign substances on the burned area, frequent touching of the wound, moving joints etc; and
- Identify the causes of the burn accident and give appropriate education to the family and the community.

#### Measure to prevent burns:

- Keep away from children items such as matches, burning lamp and candles;
- Prepare and place stoves and other cooking installations in a safe way. E.g. locally made standing stove;
- Keep away from fire inflammable materials and don't' come with materials such as nylon close to fire-place;

 Educate smokers not to smoke inside a house and if they smoke give them strict advice to put off the burning left over cigarette;



# **UNIT TWELVE**

# **Poison**

**Definition**: Any substance that, if taken in to the body in sufficient quantity, can cause temporary or permanent damage. Note: get the poisoned to the hospital or health center immediately.

## The extent of danger depends upon:

The amount and type of poison
The age of the person
Whether the person vomits
Where the accident takes place

### There are different types of poisons:

- Acids - Insecticides

- Alkalis - Drugs given for allergy

(antihistamines)

-Aspirin over dose in children - sleeping pills (sedatives)

- Iron - mercury

- lead - paraffin, petrol (Gasoline)

- Lysol

### **General signs and symptoms**

- Nausea
- Vomiting
- Abdominal pain
- Change in consciousness
- Change in vital signs
- Change in pupils

# Poisons enter the body either accidentally or intentionally through

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- Ingestion (through the mouth)
- Inhalation (by breathing in)
- Absorption (through the skin) through contact with poisonous sprays, pesticide, and insecticides
- Injection into the skin as the result of bites from some animal, insects, poisonous fish or by syringe

## Steps to treatment of poison:

- Remove the poison from the body

  Give the patient the antidoto

  Treat symmetric symmet
- Treat symptoms
- Give comfort and confidence

### How to remove the poison from the body

- Make the victim vomit it
- Give plenty of tape water.
- If it is a child give them syrup or water.
- Repeat the procedure
- Refer the victim if it is not improving

**NB.** Do not make patient vomit if the poison e.g. parafin or kerosene

Do not make the patient vomit if unconscious For poisoning by acid, give alkali, anti acids



# UNIT THIRTEEN Bites

#### A. Snake Bite

#### Signs and symptoms

- Disturbed vision
- Feel nauseated or vomiting
- One or two small puncture wounds with sharp pain and local swelling

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- Symptoms and sign of shock
- Sweating and salivation in advanced stages of venom reaction

## First aid management

- Lay the victim down and advise not to move
- Calm the victim
- Immobilized the affected part and keep it below the level of the heart
- Wipe the wound of venom
- Apply firm cord just above the bite
- This must be removed in 15 minutes if you are sure that anti venoum has been injected and you can not get the victim to hospital in time. If there is no antivenoum do the following:
- Tie a cord tightly around the limb just above the bite

- Using a razor blade or a clean knife make a cut 1 cm deep
- Suck the liquid which is coming out of the wound
- Continue to suck and dispose for 5-10 minutes
- Loosen the cord around the patients limb
- Disinfect the wound
- Refer to hospital for anti- venom injection.



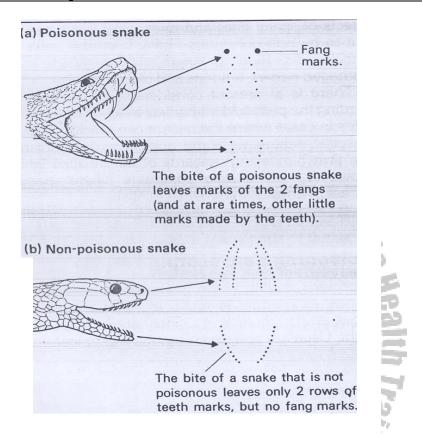


Fig .11. Snake bite

## B. Dog bite

**Rabies** is a sickness due to an infection from an animal usually a rabid dog, cat, fox, wolf, and bats. The infection grows in the animal's nerves, may develop the disease, if the saliva enters a wound or scratch on a human being.

#### Signs and symptoms of a rabid dog.

- has difficulty in swallowing
- rarely bites
- Is lethargic /lazy/
- hides it self
- does not want food, but swallows, pieces of wood stone etc
- barks in unusual way and never stop barking
- Saliva runs out of its mouth

## First aid management

- 1. Clean the wound with soap and water
- 2. Cover the wound with dressing ointment/powders
- 3. Find out if any one knows the dog that bit the patient
- 4. If the dog known, ask its owner to watch the dog carefully for lodges and to let you know it shows any of the above sign and symptoms in that time
  - See, during that time, it begins to show any of the above signs and symptoms
  - get the dog Killed
  - Send the person to hospital or Health center immediately for antirabies vaccination

# **UNIT FOURTEEN**

### Fit

### Fit (convulsions)

Aich ( When some one has jerking movements and which cannot be controlled it is called fit or convulsion.

- Signs and symptoms:-
- uncontrolled jerking movements
  - Unconconscious to the environment

### Management:

- Keep the air way clear and lie him on one side
- Remove any clothes which is too tight
- Keep from biting his tongue by putting tongue depressor in the mouth
- Note vital signs and time of fit
- Prevent from injury or sharp objective
- Educate the victim and the family to go to health center or a hospital for further investigation and management

### **UNIT FIFTEEN**

# Eye, Ear and Nose Injury

#### Injury to the eye

.ed ε Since the eyes are delicate, they can be affected easily there fore; immediate help should be given.

## Signs and symptoms

- Pain inside the eye
- Wound or cut around the eye ball
- Different between the size of eye ball
- Sight decreases
- Inflammation and infection

### Management of the eye injury

- Avery light covering be applied to an injured eyes
- Do not apply pressure
- Reassure the patient
- If no improvement in few days, Refer the victim to the nearest health facility

### Foreign bodies in the eyes:

A foreign can be; dust, ash, particles of sands, or small fly etc. Often you can remove foreign from the eyes by flooding it with taped boiled water.

#### If it does not work:

Instruct the patient not to rub his eyes, while the patient is looking up; gently draw the lower lid down and out. If the foreign body is seen on the lower lid remove it with moistened cotton wool or the corner of a clean hand kerchief, Ethionia

#### If it does not

- Stand behind the patient
- Carefully place a smooth match stick at the base lid and pull and turn it in side out over the math stick
- Remove the often body with wisp of cotton wood

Note: - Do not try to remove a foreign body from the eye ball

If an acid or alkali gets in to the eye, this can be very dangerous hence, flood the eye with running water for several minutes



Hold the affected side of the eye

Fig. 12. First aid treatment of Chemical burn.

#### Problems with ear:

#### Bleeding from the ear:

Bleeding from the ear may be due to broken (fractured) skull

- Cover the ear with a clean material (sterile if available) dressing.

  Do not plug the ear with wool

- Refer the victim to the nearest health facility

#### Foreign body in the ear:

- Turn the patient's head to the affected part of the ear so that the foreign body may drop out.
- If it is an insect which is inside the ear, direct torch- light to the ear- the insect may follow the light and come out of the ear. If this does not succeed
- Pour in taped boiled water, the insect may float out
- If neither these treatment is successful refer the client to the next health facility.

#### **Bleeding from the Nose:**

- If the foreign body is either beans, peas, avoid putting water or any fluid
- Get the patient to pinch the lower part of his nose firmly for 10 minutes, while breathing through his mouth
- Loose tight clothing around his neck

- Tell the patient not to blow his nose for several hours
- If bleeding persists, refer the client to the next health facility.

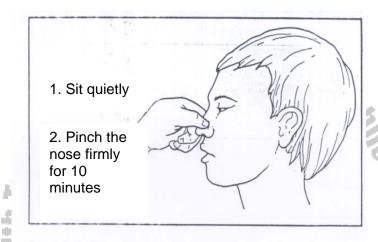
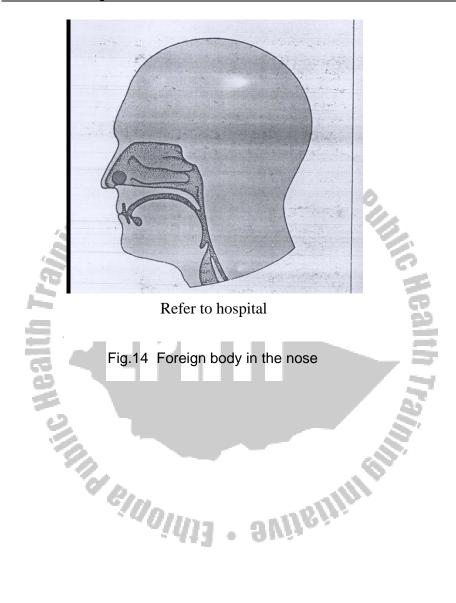


Fig . 13. How to stop a nose bleed

## Foreign body in the nose:

In an adult, a foreign body may enter the nose by accident, but mostly common in children who insert a pea or a bean in to their noses.

NB. - Do not attempt to remove it, refer to the next health facility.



# UNIT SIXTEEN Diarrhea

If some one has over three frequent/subsequent loose stool in a day, it is called diarrhea. When an individual loses much fluid from the body due to diarrhea and vomiting, it is likely that he/she becomes unconscious and /or dies.

## Causes of diarrhea and/or vomiting:

- Food poisoning; and
- Intestinal parasites.

### **Emerging adverse consequences:**

- Depletion of body fluids;
- Unconsciousness;
- Failure of kidneys;
- · Malnourishment and dehydration; and
- Death, if untreated in time.

#### Signs of dehydration/excessive loss of body fluids:

· Body debilitation or loss of weight;

- Dryness of the mouth or tongue, sunken eye balls, eye drops, and sunken fontanel, in children;
- Dry and wrinkled skin, and when the skin on the stomach is stretched up with fingers and let down, it remains as wrinkled;
- · Reduced amount of urine are observed and ; and
- Restless and unconscious.

#### First-aid measures:

- First, ensure that there are no adverse signs that are usually precipitated by diarrhea and vomiting such as:-
  - Sunken eye balls, wrinkled skin, restlessness; and unconsciousness; and in children, continuous vomiting after taking fluids, shivering etc.
- Prepare ORS in one litter of boiled and cold water. If ORS is not available prepare home made solution as follows. Mix eight spoon of sugar, with half a spoon salt in one litre (three normal beer bottles) of boiled cold water. If available, add half a glass of orange or banana juice into the solution;
- The ORS or home-made solution is prepared for an adult.
   Therefore, he/she must take the fluid in small amount every

five minutes. If the one liter solution is not finished in 24 hours, prepare and give a new/fresh solution in the following day. In addition frequently provide the victim soup, ricewater, gruel/oatmeal (an adult can take daily up to three liters of fluid);

- For children give ORS or a solution mix of eight spoon of sugar and half spoon of salt in one liter of boiled coldwater or mix of 2 times rice flour or corn or wheat or smashed potato in one liter of water and boiled for 5-7 minutes. Feed children after it is properly cooled in the following manner.
  - Children 2 months to 2 years old must get 50-100 milliliters (1 or 2 cups), a maximum of 500 milliliters in one day (one spoon every 2 minutes);
  - Children 2-10 years old must get 100-200 milliliters or 2-4 cups of ORS or home-made solution after every diarrhea episode the child can take up to one liter of the solution);
  - If the victim is over 10 years old, give the fluid until satisfied;
  - If the victim vomits the fluid, wait for about 10 minutes, and give one spoon of the solution every three minutes;

- Frequently breast feed the victim and add in small amount other supplementary foods such as gruel/oat meals every 10 minutes; and
- Continue the supplementary feeding for about two Ethionia Pu weeks after the diarrhea ceased.

#### Rationale for referral

- Persistent vomiting after taking fluids;
- If the diarrhea is stained/mixed with blood and the victim has high fever;
- If the vomiting is accompanied with sign such as tenderness and sever cramp of the stomach; and
- If the diarrhea continues for 3 days in children and 4 days in adults without improvement.

#### Measures to be taken after first-aid assistance:

- Explain the causes of diarrhea and vomiting
- Observe on the presence of precipitating factors in the household, such as the maintenance of house cleanliness and personal hygiene, water source usage, the handling of food and feeding practices. Based on the findings educate the household or the community with demonstrations.

#### **Preventive Measures:**

- Educate and demonstrate to the household on the importance of washing hands with soap and water, or with endod or sand and water etc. before eating;
- Feed children supplementary food and milk with cup and spoon or breast-feed instead of bottle feeding;
- Keep children in clean areas and keep them always away from dirty area;
- Don't feed on unclean and unprotected food stuff;
- Use always latrines/toilets; and

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Maintain personal hygiene and clean environment.

# UNIT SEVENTEEN Diseases Characterized By Fever

When an individual's body temperature is too hot than normal (above 37.5 °c) he/she has a fever. Fever itself is not an illness, but a sign of many different illnesses.

## Common diseases that precipitate fever:-

- Yellow fever;
- Typhus, relapsing fever etc;
- Typhoid;
- Meningitis'
- Influenza; and
- Malaria

## Emerging adverse consequences of febrile diseases

- Mental confusion, unconsciousness;
- Reduction of body fluid;
- Convulsion; and
- High fever precipitates brine damage, paralysis, low blood pressure, dysfunction of kidneys, inability to hear, speak, and liver damage.

## First-aid Measures for febrile cases in general

- Cover with or put light dress on the victim. If the victim is a child, cover it with light cloth and carry it in your arms;
- replace fluids lost by profuse sweating give frequently the victim, soup, gruel oatmeal, if the victim is a child, give frequently breast-milk;
- Put cloth soaked in lukewarm water on the chest, face and abdomen to bring down the fever;
- Ask or ensure perhaps the presence of convulsion, chillness, vomiting, diarrhea, meningitis etc;
- If the area is malarious and the fever has lasted for at least two days, give the victim malaria treatment according to the guidelines on malaria case treatment (refer to the malaria prevention and control extension package).
- If the victim has not improved three days after he/she got the malaria treatment and if he/she has signs and symptoms such as vomiting, diarrhea, meningitis, jaundiced eyes, convulsion, inability to breathe, rapid and intermittent breathing, dyspnea, no urination after drinks, mental confusion, unconscious etc. and if the locality is not malarious and the cause of the fever is unknown, brig the victim immediately to a nearby health facility for treatment. If the victim is a child and has not improved with first-aid treatment, take him rapidly to the next health facility;

- Consult the professional staff in the health facility to find out whether the cause of the fever is or not an infectious disease;
- Assess if similar illness is observed in the same community;
   follow and register if the number of cases is rising. Then
   report and solicit support from the nearby health facility; and
- Give health education on the causes and preventive measures of the illness.
- If the cause is identified, treat accordingly or refer when necessary because meningitis and cerebral malaria are serious condition to refer soon.

## Preventive measures:

- Clear and level all mosquito breeding places such as water collections, ditches etc;
- Undertake insecticide residual house spraying; and
- Advise households to use insecticide treated nets
- Avoid over crowding
- Maintain hygiene
- Residence/houses must have windows and the windows must be kept open;
- Let air come through windows and doors in prisons, schools and in public meeting places;

- If any disease exists in the community report to the nearby health facility and in the meantime under take a survey or assessment of the situation; and
- If the number of sick people increases, advise the community to stop gathering and in the meantime solicit and organize for vaccination programme.

## Signs and symptoms:

- Unconsciousness;
- Convulsion;
- Foaming at the mouth;
- Only the white part of the eye ball becomes visible; and
- When the convulsion subsides, the victim gradually becomes conscious. The victim is weak and dizzy for sometime.

## **Emerging adverse consequences**

- Depletion of oxygen in brain, dysfunction and retardation of the brain;
- The victim incurs head damage, wound, body burns etc. during the attack; and
- Perhaps death

#### First-aid measures:

- Move or push the victim from potentially dangerous site to prevent him/her from further accident or injury while in convulsion;
- · Remove nearby objects to avoid further accident;
- Loosen tight dress, necktie, belt etc.;
- Lay him/her on his/her side, to prevent the biting of his/her tongue, insert splint of wood wrapped by stripes of cloth in between his/her teeth;
- Clean the fluid or the saliva coming out through the victim's mouth;
- Keep him/her laid down on his/her side until jerking is over.
   When the jerking is over, bring him/her immediately to a nearby health facility;
- Understand the cause of the sudden illness, and if the victim
  was already on drugs, advise and educate him/her to take
  medicine regularly. Also keep record of the victim and follow
  him/her and advise him/her not to come near fire, or to stay
  always where there are people; and
- Advise the victim to refrain from crossing deep rivers or climb high trees.

# **Management of Abortion**

## Danger signs in pregnant women

If in spit of all care and advice, any of the following happens urgent medical help should be obtained at once.

## **Bleeding**

If a pregnant woman loses any amount of blood however little from the breathing- opening

(Vaginal) she should be treated as an emergency.

# Vaginal bleeding due to abortion

Definition Abortion is an expulsion of the fetus from the womb during the first weeks of less than 28 weeks, of pregnancy.

## NB. There are two types of abortions

- This is loss of the un born fetus during the first 3 months of pregnancy
- 2. Therapeutic Abortion

This abortion which is legally induced by drugs in order to save the woman's life.

## a) Criminal abortion

This is abortion which is illegally induced in order to end the life of on un wanted fetus.

## First Aid and Management:-

- Arrange for urgent referral, until then:-
- Keep the woman quiet and clean
- Observe and record pulse and respiration rate
- Collect any tissue or collected blood which may be discharged from the womb
- Put clean piece of cloth as a pad on the genitalia

# General Assessment when dealing first aid management or emergency situation

- The whether the patient or causality is conscious or an conscious
- Assess the air way
- Check bleeding / Hemorrhaged
- Investigate or check the circulatory
- Control any bleeding it any status,
- Carry if out artificially respiration in necessary or needed.
- Check and record and interoperate vital sings
- Apply first aid management accordingly

- Reassure the causality and the relative
- Arrange and transfer to the nearest health center or Hospital for further investigation and treatment.

## All splints should be:

- Rigid/Firm
- Well padded
- Long enough to supports joints above and below the fracture

Ethionia P.

- Wide enough to fit the limb comfortably
- Applied for injured parts over cloths

## First aid kits equipment included

While bandages and dressing can be improvised it is far better to have proper equipment on hand.

- These materials should always be kept in a clean, dry, airtight container
- Do not keep the container in a damp atmosphere such as a bath room and make sure that it is clearly labeled
- Below is a suggested list of content for a first aid kit
  - 10 individually wrapped adhesive dressing
  - 1 sterile eye pad with attachment
  - 1-3 Triangular bandage

- 1-6 sterile covering for serious wound
- 6 safety pins
- 3 medium sized sterile unmediated dressing
- 1 large towel un medicated dressing
- 1 Extra large sterile unmediated dressing
- 1 scissor
- 3 forceps
- 2 pairs of gloves (disposable) etc

## **Glossary**

- <u>Fracture:</u> The breakage of bone tissue or interruption of continuation of bone tissue
- 2. **Dislocation:** it is the separation of bone at Joint abnormally
- Sprain: over pulling or over stretching of ligament ( tearing of ligaments)
- Strain: over stretching of muscles of different parts of the body
- Un consciousness: when a person is un able to aware or respond to External stimuli or objectives such as place, people and time (Disoriented)
- 6. First aid: The treatment give when an accident o sudden illness occurs
- 7. Respiratory Arrest: When the breathing stops it the air ways becomes blocked due to different accidents
- 8. <u>Drowning:</u> The condition that happens to air way such as sea, liver lake, bath, spring, while swimming and soon
- Cardiac arrest: Stopping of heart function to different causes.
- Wound: is the continuity of the tissue if the body ether internal or External
- 11. **Bandage:** is a material used to keep splint and dressing place and also to apply pressure

- 12. **Causality:** a person he seeks first aid treatment until he reaches Hospital (Vic timed person).
- 13. **Burns:** When the skin of the body is a burned or destroyed by burning causing factors.
- 14. **Poison:** when substances that are very toxic to the body hitter they reach to digestive system by swallowing
- 15. Antidotes: substances which neutralizes
- 16. Pain: sensation of Discomfort just like sharp knife
- 17. Abortion: is expulsion of the fetus stimulation
- 18. Complete abortion: When the placenta are expelled
- 19. <u>Incomplete abortion:</u> when the fetus comes out but pieces of placenta after birth remain in the womb
- 20. <u>Fit:</u> Jerking movements which can be controlled (convulsion)
- 21. **Fever:** Height body temperature
- 22. **Hypothermia:** Temperature below normal
- 23. Split: Any firm material that helps to support the fractured bone or part.

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## **Multiple Choice Question**

- When unconscious patient's head tilts forward the air way often will be obstructed by the
  - a. Tongue
- c. Throat (pharynx)
- b. Tonsils
- d. Voice box
- 2. You find an unconscious patient and call out for first aider help. Your next step is
  - a. Clear the mouth
  - b. Ensure an open airway
  - c. Check for a pulse
  - d. Provide ventilation
- 3. The first step to control bleeding is
  - a. Tourniquet
  - b. Pressure point
  - c. Direct pressure
  - d. Applying a dressing
- 4. Which comes first in adult cardio pulmonary Resuscitation?
  - a. Ensure an open air way
  - b. Call dispatch
  - c. Establish breathing
  - d. Establish unresponsiveness

- 5. A simple Nose bleeding is best controlled by
  - a. Tilting head back
  - b. Packing nostrils with gauze
  - c. Using facial pressure points
  - d. Pinching Nostrils
- 6. The main purpose of splinting is to
  - a. Set broken bones in their normal position
  - b. Realign broken bones
  - c. Immobilize the injured part
  - d. Apply tension to a broken bone
- 7. Which of the following is a symptom of a snake bite:
  - a. Weakness
  - b. Nausea
  - c. Vision problem
  - d. All of the above
- 8. Which of the following is the purpose of first aid treatment?
  - a. To sustain life
  - b. To prevent the injured condition from becoming worse
  - c. To help him/her to recover
  - d. An of the above

- 9. Common cause of respiratory problems is/are
  - a. Drawing
  - b. Combustible
  - c. Inhalation of oxygen
  - d. A and B

## 10. Types of open wounds includes

- a. Abrasions, Boil, Incisions, Puncture and Avulsions
- Ulcerated, Abrasions, incision; punctures of avulsion
- c. Avulsions, Puncture, fracture, Abrasions and incisions
- d. All of the above

## 11. The common causes of wound

- a. Falling
- b. Accidents like motor vehicles
- c. Mishandling of sharp objects
- d. All of the above

## 12. All are the main aims of dealing with wound except

- a. To treat and prevent shock
- b. To control the wound from contaminants
- c. To facilitate complication
- d. To control bleeding

- 13. The principle that should be followed during treatment of unconscious patient
  - a. Checking the air way, berthing and circulation
  - b. Assessing air way and checking appetite of the patient
  - c. Checking weather he/she is waving or not
  - d. Checking bleeding and attempt to stop bleeding only
- 14. A cracked bone is called
  - a. Strain
  - b. Sprain
  - c. Fracture
  - d. Dislocation
- 15. The first aid management of fracture
  - a. Immobilize the injured part
  - b. Stop bleeding
  - c. Bandaging and application of splinting
  - d. All of the above
- 16. An injury which occurs at a joint when the ligament and tissue around particular joint are suddenly twisting or torn is
  - a. Sprain

- b. Strain
- c. Dislocation
- d. Fracture
- 17. The first aid treatment of sprain include
  - a. Raise the limb, cold compress, Bandaging firmly and rest
  - b. Apply bandaging, cold compress and support with a hard board
  - Raise the injured part, cold compress, bandaging and advise the patient to move around the bed
  - d. All of the above
- 18. All are the first aid management of burn Except one
  - a. put off flame with cold water or by instructing the victim lay down and roll on ground
  - b. Don't attempt to remove any constricting items
  - c. Cover the area with a clean cloth or sheets
  - d. Do not handle the burned area
- 19. Which of the following is True abut the first aid treatment of poisoning
  - a. Do not make patient vomit if the poison is kerosene and acid
  - b. Dilute the poison by giving plenty of fluid

## 20. Dislocation is

st A	id M	lana	agement and Accident Prevention
		c.	If a known poisoning give antidote
		d.	All of the above
20	. Di	sloc	Twisting of ligament Overstretching of muscles Cracked bone Separation of bone at a joint
		a.	Twisting of ligament
		b.	Overstretching of muscles
		c.	Cracked bone
		d.	Separation of bone at a joint
	Š	¥	
4	S		
Key to multiple-choice questions:			
1.	Α		10.B
197	В	4	11.D
3.			12. C
4.	420		13. A
5.	D		14. C
6.	С		15. D
7.	D	1	18 B
8.	D		18 B 19.D 20. C
9.	D		20. C