





Emergency Conditions arising out of NCDs For FLW





























LEARNING OBJECTIVES

- 1. Recognizing General Signs in relation to emergencies arising out of NCDs
- 2. Management Protocol -General
- 3. Management protocol Specific measures for Stroke, Heart
- Attack, and Diabetic emergencies
- 4. Safe Transport and Referral
- 5. Follow-up Care
- 6. Prevention and Awareness Generation at Community Level

















RECOGNISING LIFE THREATENING SITUATIONS- NCDs



- 2. Sudden drooping or weakness in one side of the face
- 3. Sudden loss of balance, headache, dizziness, or loss of consciousness
- 4. Sudden blurring of vision
- 5. Sudden difficulty in speech/inability to speak
- 6. Sudden pain in the chest
- 7. Diabetic emergencies (Low blood sugar level and High blood sugar level)











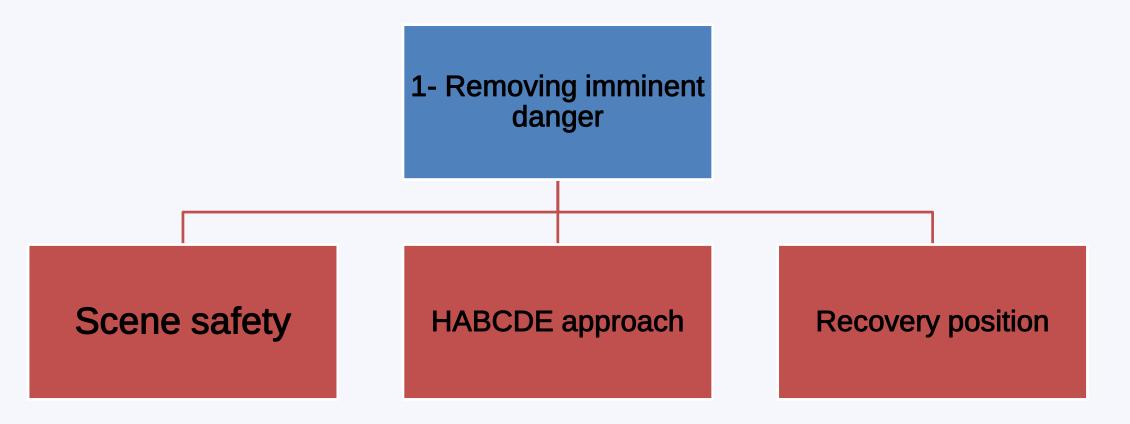






MANAGEMENT PROTOCOL-GENERAL MEASURES

- Call the Ambulance (102)
- Inform the CHO and MO about the situation
- Stabilise the victim till transferred to the health facility Two Approach



2- Specific measures for stabilization















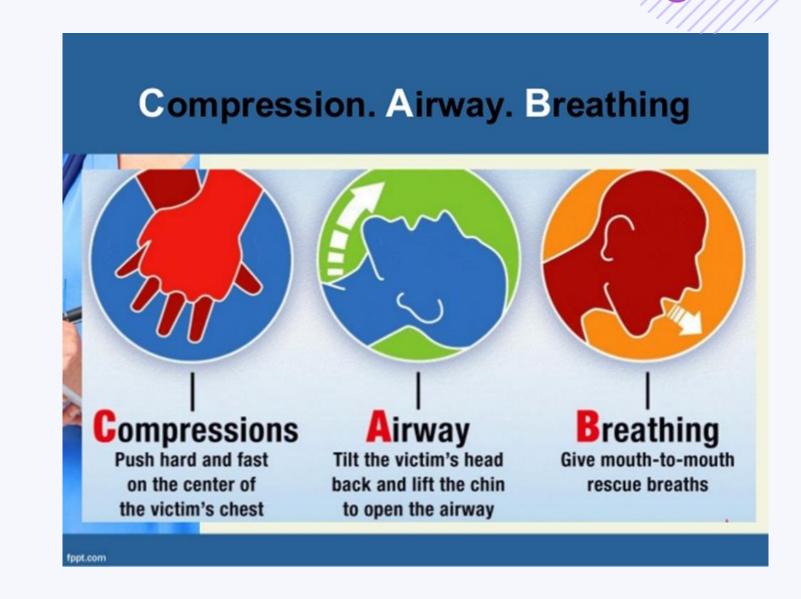


BUT IN CASE OF CARDIAC EMERGENCIES



CAB instead of HABCDE protocol

To allow blood to be pumped by the heart



















SPECIFIC MEASURES

- The two most common NCDs hypertension and diabetes can lead to emergencies if not controlled.
- They are- Stroke, heart Attack/Cardiac Arrest, Diabetic emergencies.
- In NCD related emergency conditions, the most important step you must take is planning a proper referral. Apart from that, sometimes when you find no pulse, you will be needed to perform CPR (Cardio-Pulmonary Resuscitation).

















DIABETIC EMERGENCIES

Low sugar problems: more dangerous than high sugar levels

- Tired, sweating, confusion, seizures, unconscious
- May be confused with stroke
- Give Sugar by mouth
- If no improvement rush to the hospital

SWEATY CONFUSED SHARW GRUMPY

High sugar problems:

- Increased urination, thirst, severe dehydration, nausea, abdominal discomfort
- Seek medical care urgently

If a person who has a known history of diabetes shows any of these symptoms, refer him/her immediately to the nearest appropriate health facility.

















STROKE

Signs:

- 1. Sudden weakness in arms or legs (usually affects one side of the body)
- 2. Sudden drooping or weakness in one side of face
- 3. Sudden loss of balance, headache, dizziness or loss of consciousness
- 4. Sudden blurring of vision
- 5. Sudden difficulty in speech/inability to speak

A case of stroke must be immediately transferred to a tertiary care hospital

















HEART ATTACK / CARDIAC ARREST

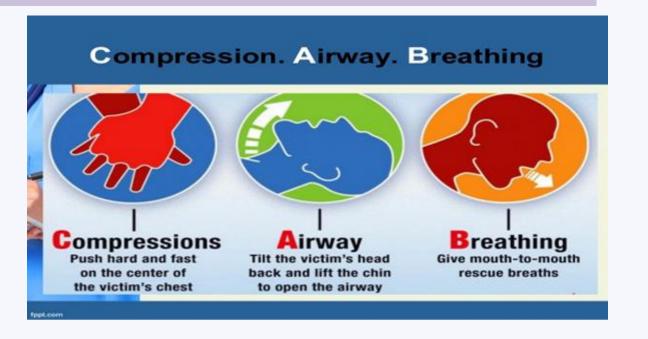
Signs:

- Sudden pain in the chest which may spread to left arm,
- Difficulty in breathing and loss of consciousness.
- Sometimes a heart attack may present only as sweating, nausea, tiredness, tingling and numbness in the extremities.

A case of heart attack must immediately be taken to the nearest health facility. They may require Cardio-Pulmonary Resuscitation (CPR). (Remember to follow CAB and not ABC.

























Step 1	Kneel by the side of the victim	Intermanimary
Step 2	Place the heel of one hand in the centre of victim's chest.	Tine Tine
Step 3	Place the heel of your other hand on top of the first hand.	

Step 4	Interlock the fingers of your hands and ensure that pressure is not applied over the victim's ribs.		
Step 5	Position yourself vertically above the victim's chest		
	and with your arms straight, press down on the sternum 4-5 cm	Search Control of the	



Step 6	After each compression release all the pressure on the chest without		
	losing contact between your hands and sternum.		
Step 7	Repeat at the rate of minimum 100 compressions per minute (a little		
	less than 2 compression a second).		
Step 8	Compression and Release should take equal amount of time.		

















CPR IN ADULTS

Adults (Masks on)

- 100 per minute
- Continuous for 2 minutes
- Heel of one hand in the center of the chest on the lower half of sternum with the other hand on top
- Straight arms, locked elbows and shoulders in line with patient's midline
- Extend your back



















COMBINE CHEST COMPRESSIONS WITH RESCUE BREATHS

- After 30 compressions give mouth to mouth breathing to the victim.
- Continue with chest compression and rescue breaths in a ratio of 30:2.
- Stop to recheck the victim only if he starts breathing normally; otherwise do not interrupt resuscitation.

Only CPR:

- If you are unable or not willing to give rescue breaths, give CPR only.
- If chest compressions only are given these should be continuous at the rate of 100 per minute.
- Stop to recheck the victim only if s/he starts breathing normally; otherwise do not interrupt resuscitation.

















- Person 1 (leader) does scene safety ensures infection control, assess patient and start CPR
- Person 2 calls for help and then assumes hovering position
- Person 2 swaps with Person 1 continuing CPR
- Swap compression provider every 2 minutes
- Faces Covered!



















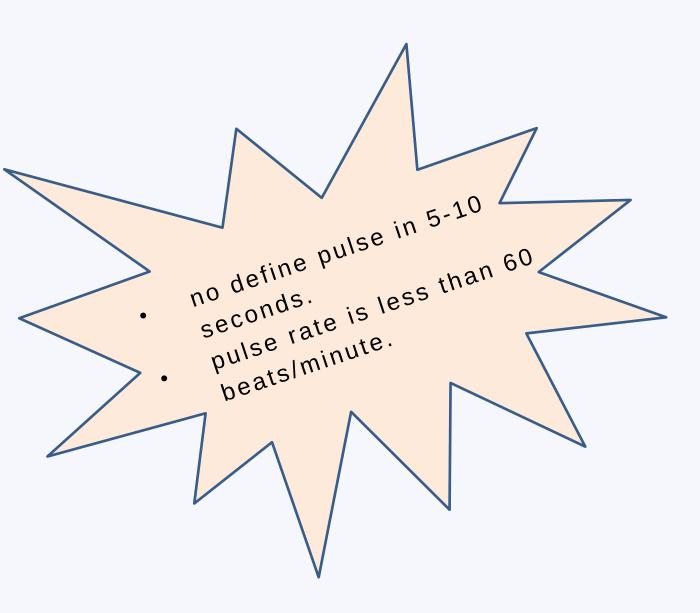


CPR IN CHILDREN

- 1. Give initial rescue breaths before starting chest compressions.
- 2. Compression (about 2 inches) at the rate of at least 120 per minute, at the center of the chest (lower half of the sternum).
- 3. Tilt the head back and listen for breathing.
- 4. If not breathing normally, pinch nose and cover the mouth with yours and blow until you see the chest rise. Each breath should take 1 second.

Caution: Breaths can be omitted during pandemic times and hands-only CPR may be performed.

Chest compression and rescue breaths in a ratio of 30:2













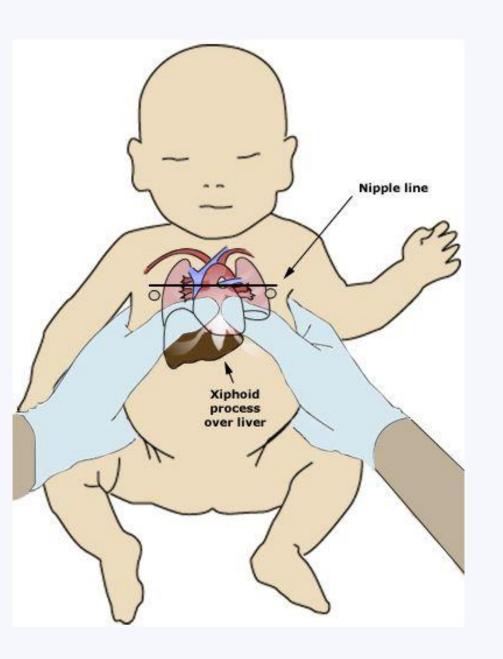






CPR IN INFANTS

Check for brachial pulse is preferred –CPR even if HR is less than 60.



- 1. Identify inter-mammary line
- 2. Press with two fingers just below the centre of the inter-mammary line.
- 3. Compress chest by 1/3 to 1/2 of the depth of the chest (about one and a half inches).
- 4. Give 15 gentle chest compressions at the rate of at least 120 per minute.



CPR AT A GLANCE















	ADULT	CHILD	INFANT
C- COMPRESSIONS	 press down on the sternum 4-5 cm. 100 per minute, Continues for 2 minutes 	 centre of the chest (lower half of the sternum). 2 inches down 120 per minute 	 centre of the intermammary line. 1/3 to 1/2 of the depth of the chest (about one and a half inches). 15 gentle chest compressions at the rate of at least 120 per minute.
(Compress location)		© Healthwise, Incorporated	









REFERRAL

ANNEXURE









HWC-SC (CHO)

- Simple Burns
- Fresh scratches / superficial wounds
- Animal/insect bites
- Chest Pain (only for first aid)
- Uncomplicated choking

HWC-PHC (MO)

- •Fever with altered mental status
- •Fever with Headache/ chest Pain/ Jaundice
- Chest pain
- Choking
- Simple burn injuries including chemical and acid burn
- Convulsions, Epileptic Seizures
- Headache
- Unconsciousness/ Fainting,
 Disorientation
- Breathing problems (difficult breathing, shortness of breath),
- Hanging / Drowning/ Electrocution/
 Stroke
- Abnormal bleeding Per Vagina
- Ongoing bleeding (Blood in vomitus, Blood in cough, Blood in urine, Nose bleeding etc)
- Acute abdominal pain,
- Drug overdose, Poisoning- with stable vital signs
- Severe allergic reactions
- Minor Head Injury and other Musculo skeletal injuries
- Suspected spine Injury (any)
- Injury to a pregnant woman

FRU/DH/Tertiary Care Centre (Specialist/MO)

- Chest pain
- Cardiac problems (e.g.: Heart block, CHF, rhythm disturbances)
- Breathing problems (difficult breathing, shortness of breath),
- Choking
- Unconsciousness/ Fainting, Disorientation/Stroke
- Shock (including due to blood loss, dehydration etc.)
- Uncontrollable bleeding, e.g.: nose bleed, hematuria
- Painful Bleeding P/R
- Cyanosed infant/child, (e.g.: Foreign Body inhalation)
- · Convulsions, Epileptic Seizures,
- Diabetic emergencies
- Animal bites, snake bites/Scorpion bite
- Drowning
- Poisoning -unstable vitals
- Acute abdominal pain (severe),
- Burns and inhalational injuries (including steam, acid attack and smoke inhalation)
- Musculo skeletal injuries (e.g.: Road Traffic Injuries, fall from height etc.)
- Injuries due to weapons (e.g.: gunshot wound, Stab wounds etc.)
- Injuries due to violence (e.g.: Suspected sexual assault, domestic violence)
- Any other life threatening condition

















FOLLOW UP CARE

- Ensuring regular check-ups of the patient
- Educating him/her regarding strict adherence to- DLM
 - dietary modifications advice
 - lifestyle modification advice
 - Medications advice

















PREVENTION & AWARENESS GENERATION

Key messages:

- All hypertensive and diabetic patients should get their:
 - 1. blood pressure and blood sugar checked regularly,
 - 2. take medicines as prescribed,
 - 3. follow dietary advice,
 - 4. maintain healthy lifestyle and
 - 5. visit the doctor regularly.
- <u>Pregnant women with hypertension</u> and other co-morbidities should undergo periodic monitoring of their vitals and keep family and you informed.











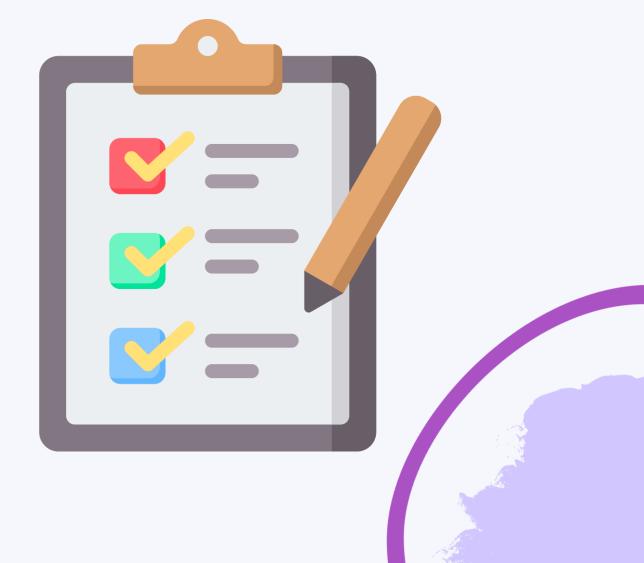






EVALUATION

- What is 'C' in C A B?
- What should be given to patient of diabetic emergency with low blood sugar level?
- Combine chest compression is-
 - 1. CPR by team of two persons
 - 2. Compressions with rescue breaths
 - 3. Mouth to mouth











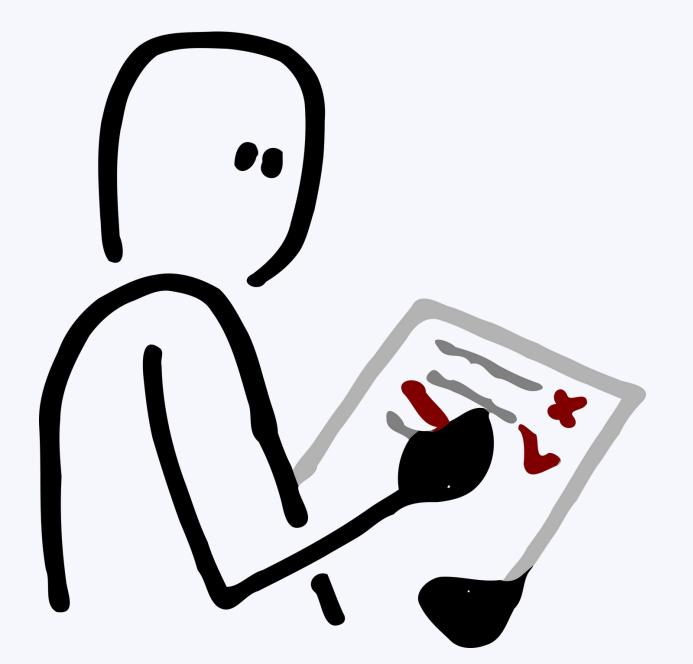








ANSWERS



- Chest Compressions
- Sugar by mouth
- Compressions with rescue breaths







Thank You











