

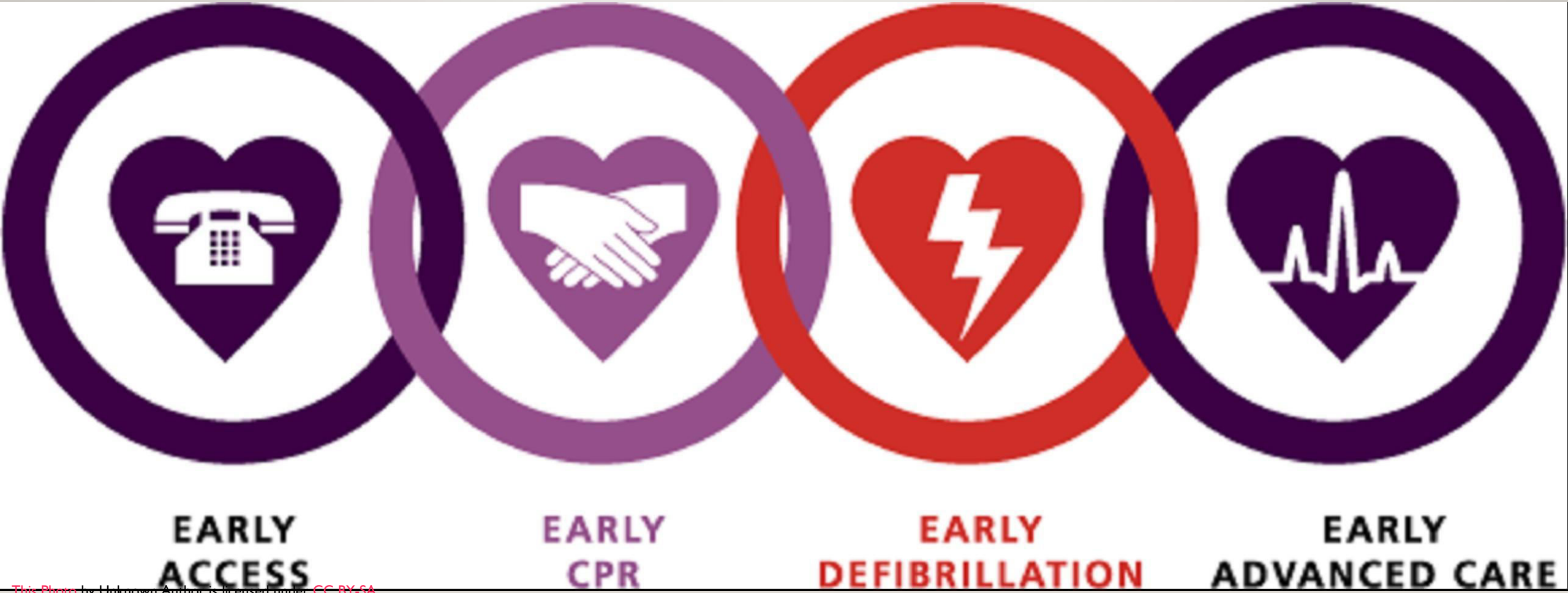
CARDIOPULMONARY RESUSCITATION

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INTRODUCTION

SUDDEN DEATH OCCURS WHEN HEART AND BREATHING STOP SUDDENLY OR UNEXPECTEDLY. THE MAJOR ROLE OF CPR IS TO PROVIDE OXYGEN TO HEART ,BRAIN AND THE OTHER VITAL ORGAN UNTIL MEDICAL TREATMENT (ADVANCE CARDIAC LIFE SUPPORT – ACLS) CAN RESTORE NORMAL HEART ACTION.

CHAIN OF SURVIVAL



INDICATIONS:

CARDIO VASCULAR DISORDERS

CAD, CONGENITAL HEART DISEASES, CORONARY EMBOLISM ETC.

PULMONARY CAUSES

PULMONARY EMBOLISM ,PULMONARY EDEMA, ASPHYXIA.

COUNTINUE INDICATION.....

METABOLIC CAUSES

HYPOGLYCEMIA, ELECTROLYTE IMBALANCES

FLUID IMBALANCES

EXTENSIVE HAEMORRHAGE ,HYPOTENSION, SHOCK

NEUROLOGICAL CAUSES

BRAIN INJURIES, MASSIVE CVA

OTHER CAUSES

CO POISONING, DRUGS ELECTRIC SHOCK, HYPOTHERMIA,
NARCOTIC OVERUSE.

CPR

PROCEDURE

STEPS FOR CPR:

AIRWAY: MAINTAINING AN OPEN AIRWAY.

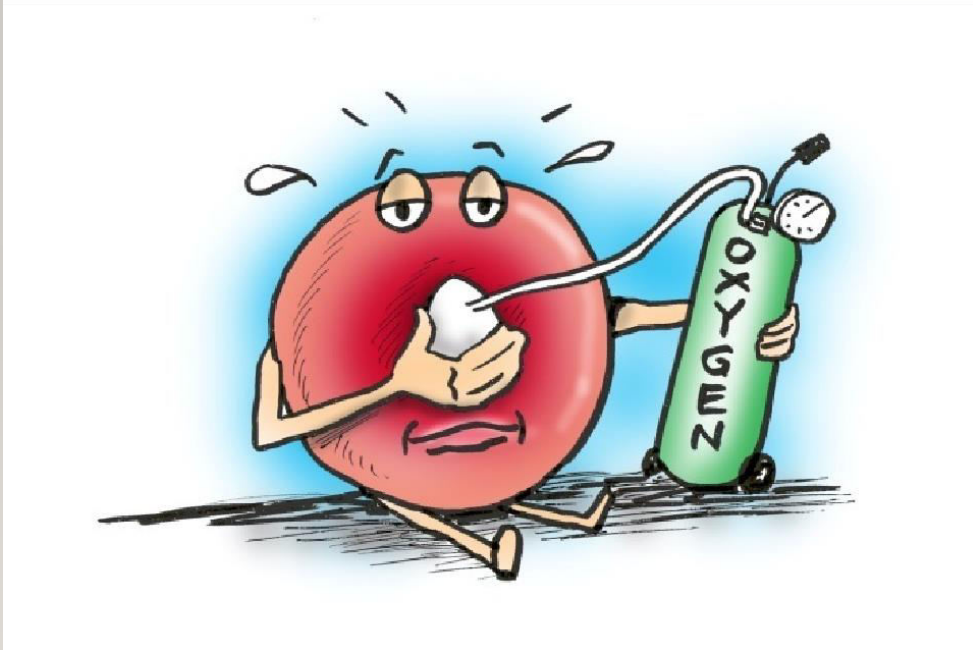
BREATHING: PROVIDING ARTIFICIAL VENTILATION BY RESCUE BREATHING.

CIRCULATION: PROMOTING ARTIFICIAL CIRCULATION BY EXTERNAL CARDIAC COMPRESSION.

DEFIBRILLATION: RESTORING THE HEART BEAT.



CHECK RESPONSE



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- Shake shoulders gently ask “ are you all right?”
- If the person responds
- Leave as you find him
- Find out what is wrong
- Reasses regularly

AIRWAY

- Head tilt chin lift manoeuvre
- Jaw thrust manoeuvre

HEAD TILT CHIN LIFT MANOEUVRE



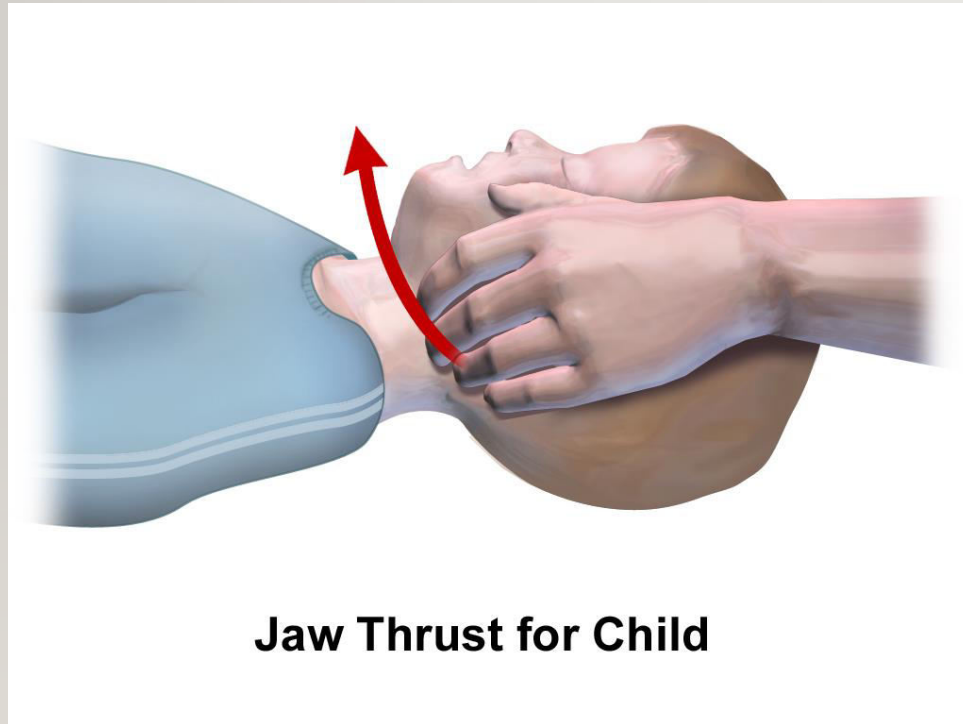
SOURCE: Copyright. American Heart Association. *Instructor's Manual for Basic Life Support*. Dallas: American Heart Association, 1987.

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★ **Figure 27. Head tilt/chin-lift.**

- While pushing back on the forehead, use your other hand to lift the chin forward

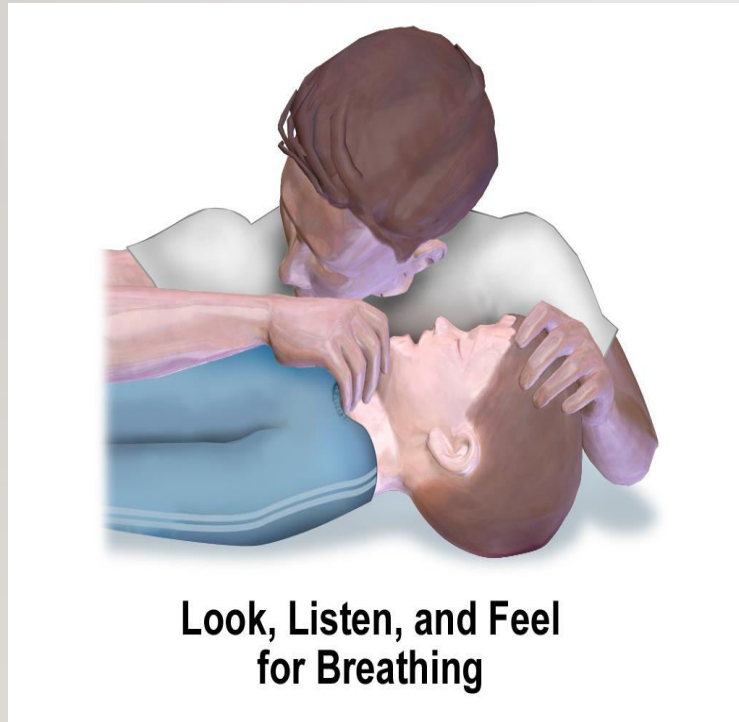
JAW THRUST MANOEUVRE



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- If you suspect the victim has a neck injury, place your hands alongside the cheeks and pull the face towards you with your index fingers.

BREATHING



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LOOK LISTEN FEEL

- Look listen and feel for breathing and pulse.

METHOD

- Mouth to mouth ventilation
- Mouth to mask ventilation
- Bag mask ventilation

CIRCULATION

- Access pulse

CHEST COMPRESSIONS



CHEST COMPRESSIONS

place the heel of one hand in the
centre of the chest .

Place other hand on top

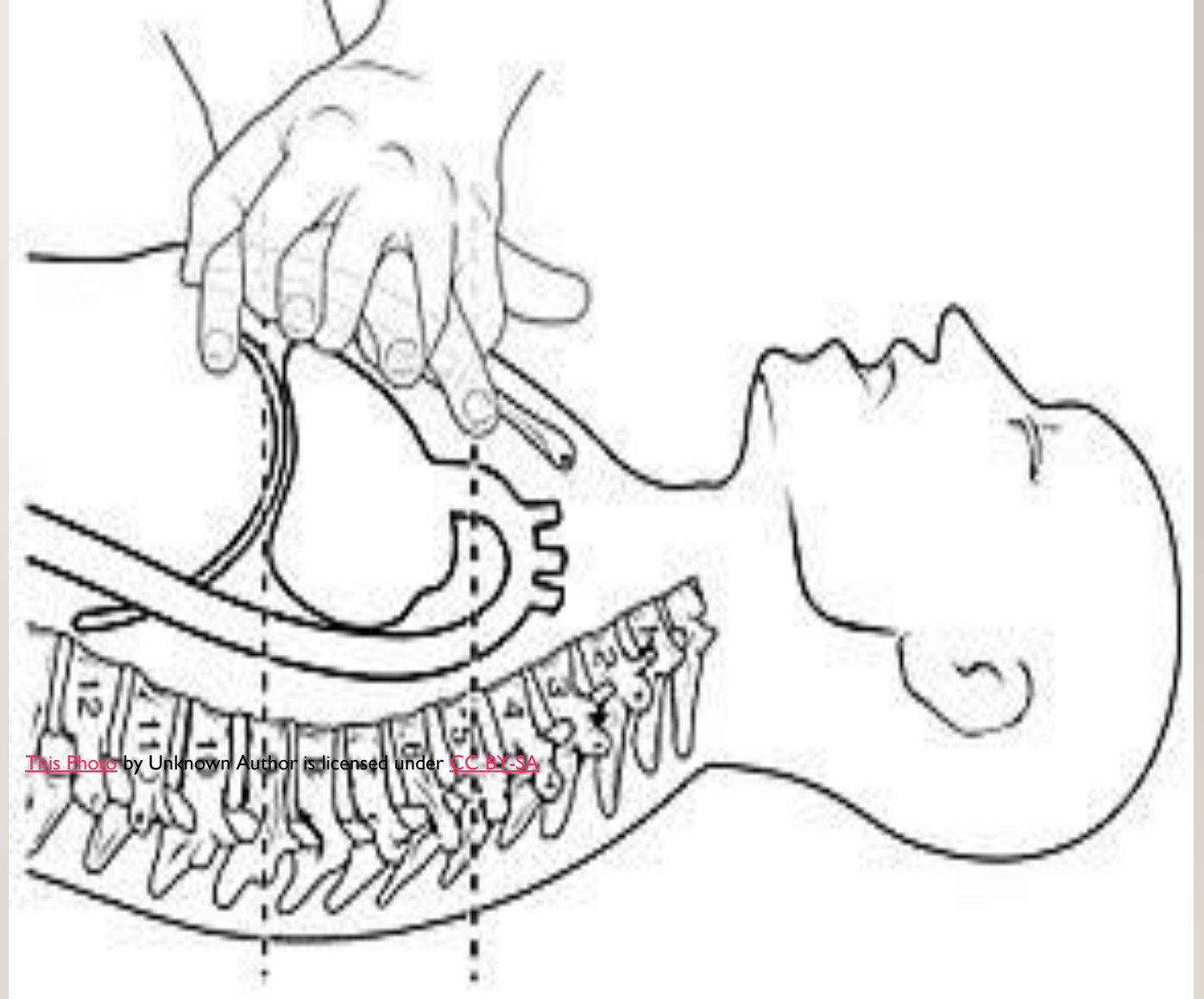
Interlock fingers

Compress the chest at the rate 100
per min

Depth 3-5 (1.5 to 2 inches)

Equal compression:relaxation

When possible change cpr operator



DEFIBRILLATION

Device that delivers direct electrical current across the myocardium. The aim is to produce synchronous depolarization of cardiac muscle.



**PADDLE SITE: RIGHT INTRACLAVICULAR REGION
IN LOWER AXILLARY .**

PADDLE SIZE: 8CM -12CM

WAVE FORM PATTERNS:

MONOPHASIC

BIPHASIC TRUNCATED EXPONENTIAL

BIPHASIC RECILINEAR

ENERGY LEVEL

PEDIATRIC – 2-4 J

ADULT-360 J

STEPS;

Switch on

Select paddle mode

Assess rhythm

Press paddles firmly over the chest

Deliver the shock

Resume cpr

If still unstable shift to icu

COMPLICATIONS

- Rib fracture
- Laceration related to the tip of the sternum
- Liver ,lung ,spleen
- Aspiration
- Vomiting

THANK YOU

