BASIC LIFE SUPPORT

Objectives

To understand:

- The risks to the rescuer during resuscitation
- How to perform BLS
- The differences between "layperson" and "in-hospital" BLS

Risks to the rescuer

- Eliminate or minimise risk
- Manual Handling
- Beware of environmental danger: –traffic
 - -electricity
 - -gas -water

Risks to the rescuer: poisoning

- Hydrogen cyanide or hydrogen sulphide gas –mask and non-return
- Corrosive chemicals
 - –absorbed through skin and respiratory tract

-protective clothing

Risks to the rescuer: infection

- 15 documented cases of CPR related infection mainly *Neisseria meningitidis*
- Tuberculosis
- Not hepatitis B or C, or CMV
- 3 cases of HIV transmission from highrisk cutaneous exposure

Risks to the rescuer: precautions against infection



- Gloves and eye
 protection
- Sharps box
- Face-mask with oneway valves
- Manikins
 - -clean regularly

Assessment

Ensure safety of rescuer and victim



Is the victim responsive?



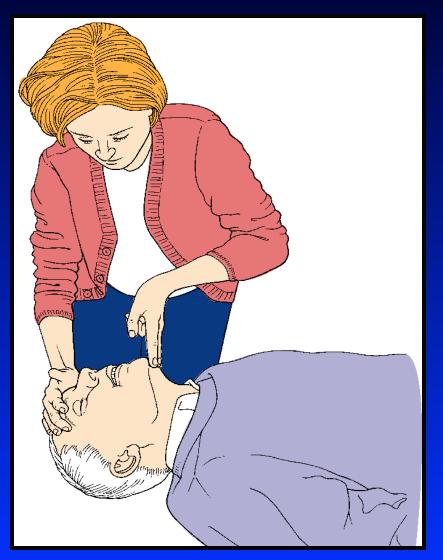
- Check for injuries
- Reassess
- Get help

Is the victim responsive?



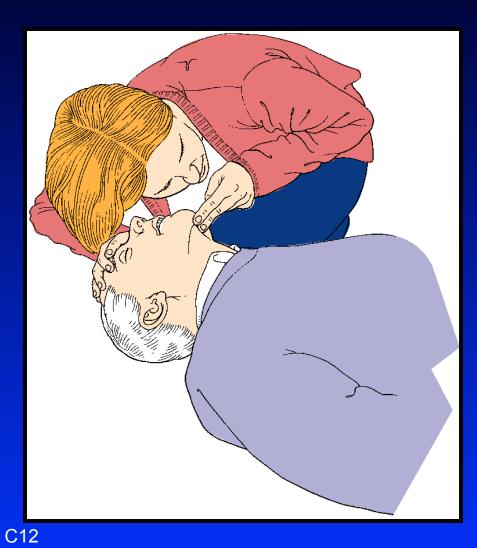
- Shout for help
- Open their airway
- Check for breathing

Opening the airway



- Head tilt
- Chin lift
- If cervical spine injury suspected:
 jaw thrust

Assess Breathing



- Look for chest movement
- Listen for breath sounds
- Feel for expired air
- Assess for 10 seconds before deciding breathing is absent

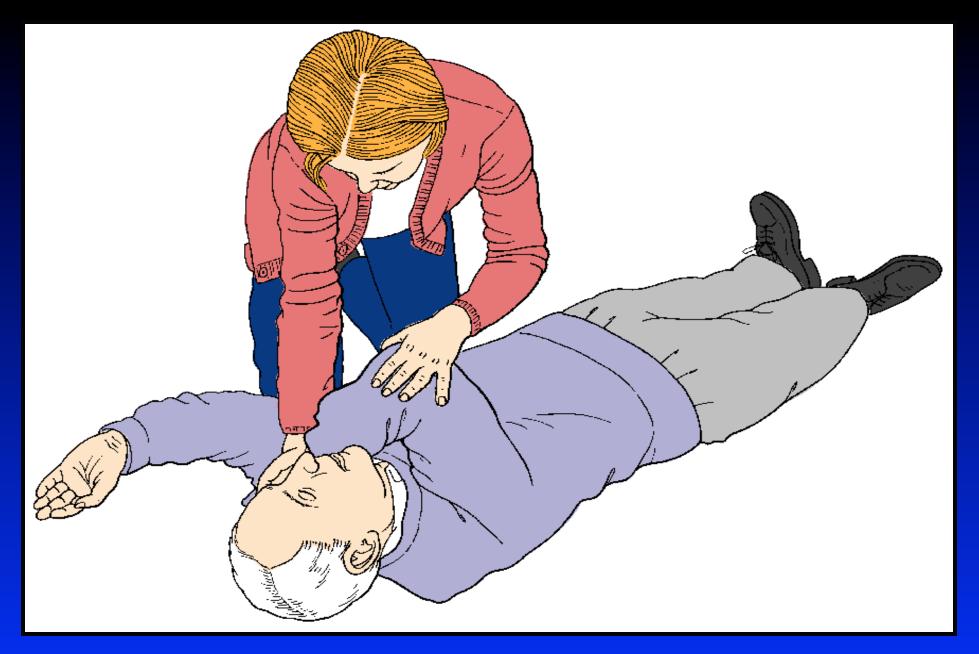
Is the victim breathing?



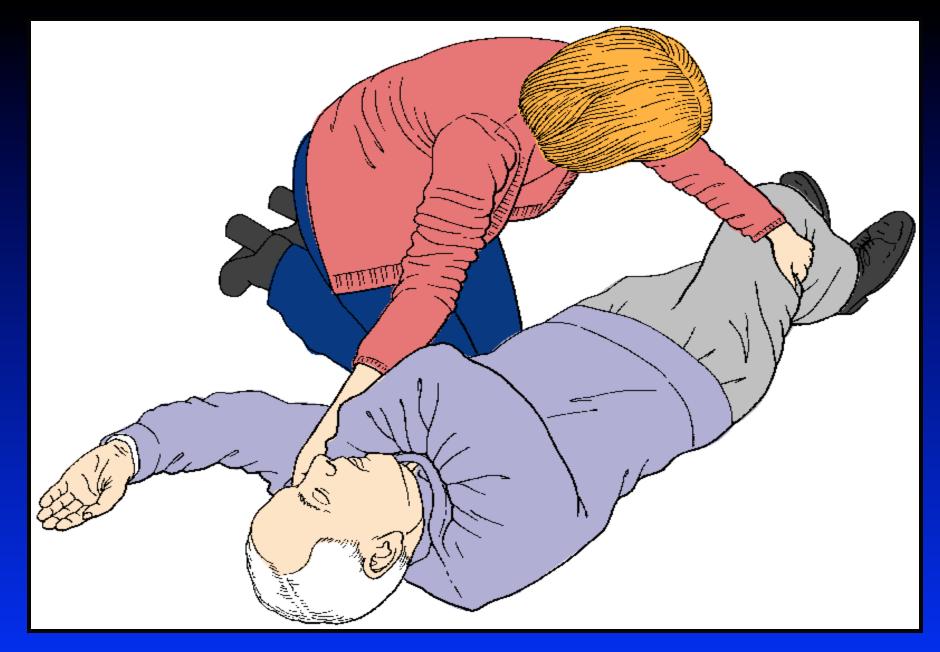
- If safe, use recovery position
- Telephone for help
- Reassess at intervals



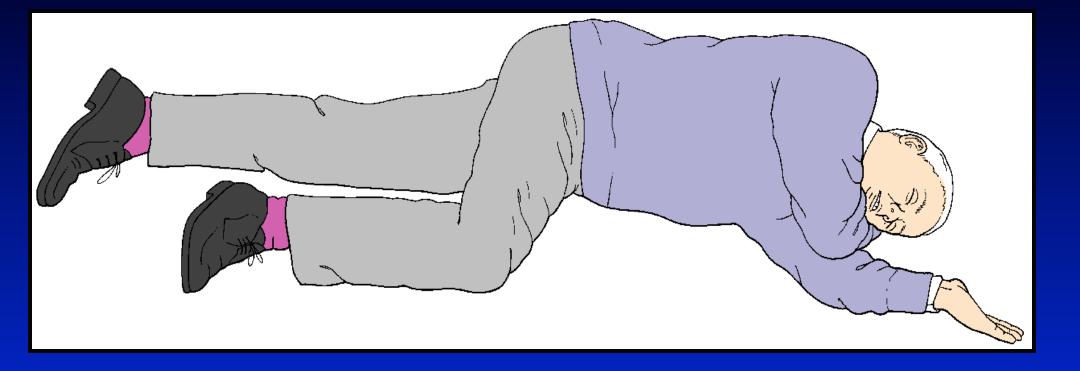
Recovery Position 1st Stage



Recovery Position 2nd Stage



Recovery Position 3rd Stage



Recovery Position 4th Stage

Is the victim breathing?



- Telephone for help
- Give two slow effective rescue breaths
- Make up to 5 attempts

Rescue breathing (Expired air ventilation)

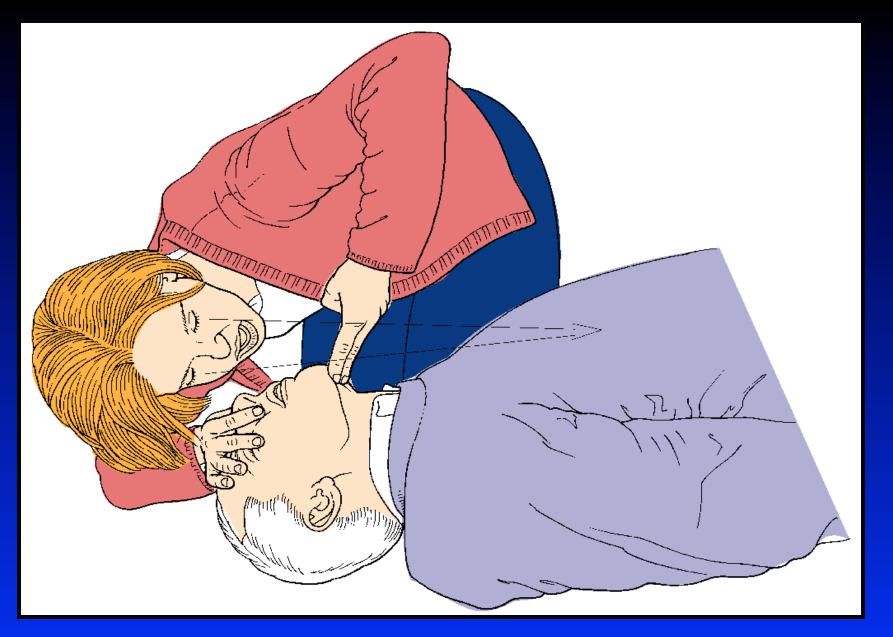


- Occlude victim's nose
- Maintain chin lift
- Take a deep breath
- Ensure a good mouthto-mouth seal

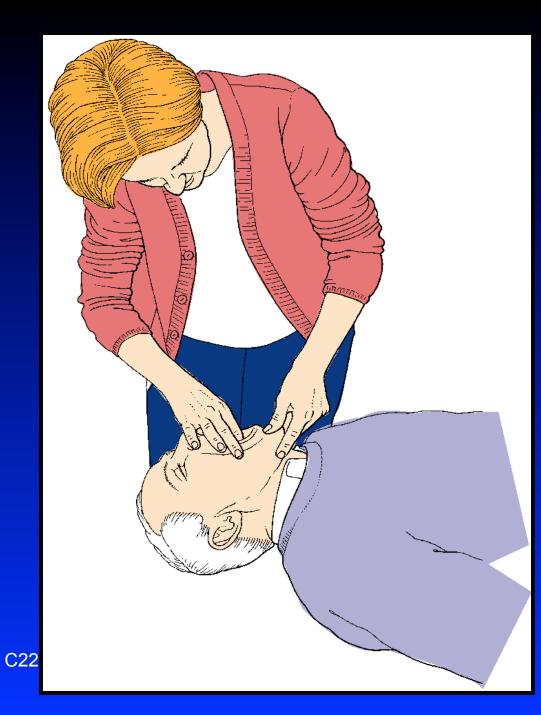
Rescue breathing (Expired air ventilation)



- Blow steadily (2 sec) into victim's mouth
- Watch for chest rise
- Maintain chin lift, remove mouth
- Watch chest fall



Watch for chest fall



Finger sweep

Assess Circulation

- Look, listen and feel for normal breathing, coughing, or movement by the victim
- Take no more than 10 seconds

Is a circulation present?

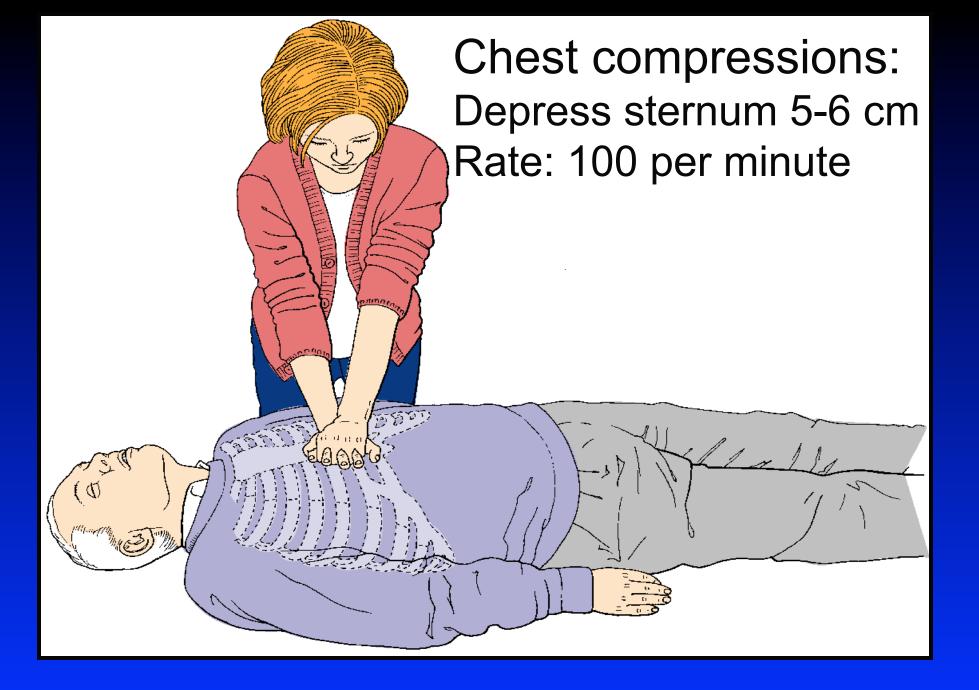


- Continue with rescue breathing
- Reassess for signs of a circulation about every minute

Is a circulation present?



Start chest compressions Continue with rescue breathing





Chest compressions



Chest compression: breath ratio

- 30 compressions : 2 breaths for
 - 1-person CPR
 - 2-person CPR

Continue resuscitation until:

- Qualified help arrives and takes over
- The victim shows signs of life
- You become exhausted

Mouth-to-nose ventilation

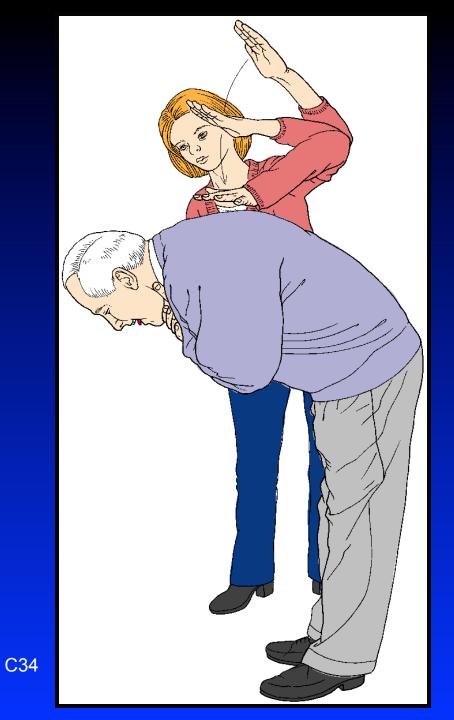
- If mouth-to-mouth technically difficult
- If mouth seriously injured
- Rescue from water
- Resuscitation carried out by a child
- Aesthetic reasons

Compression-only CPR

- Reluctance to perform mouth-to-mouth ventilation
- Chest compression alone better than no CPR
- If possible combine with head tilt
- Appropriate for telephone-CPR

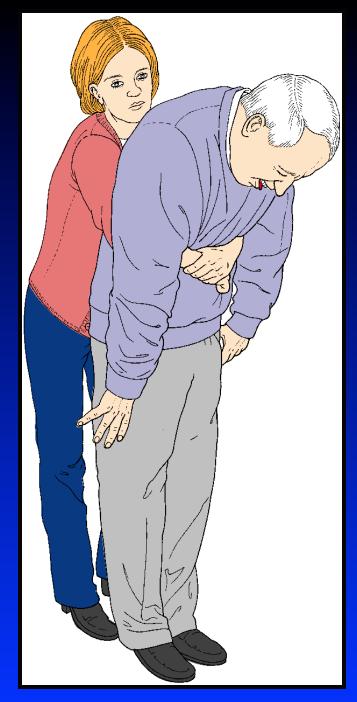
Cervical spine injury?

- If possible, maintain alignment of head, neck and chest
- Minimum head tilt only
- Jaw thrust preferable
- Assistance often required



Choking: Back Blows





Abdominal Thrusts

Any Questions?