# **QUICK CHECK AND EMERGENCY TREATMENTS FOR ADOLESCENTS AND ADULTS**

IMCI = Integrated Management of Childhood IIIness; ETAT= Emergency Triage Assessment and Treatment; IMPAC = Integrated Management of Pregnancy and Childbirth; IMEESC = Integrated Management of Essential and Emergency Surgical Care

## **EMERGENCY SIGNS**

All staff should be able to assess these signs. If any sign is present, patient is severely ill. Call for help. Clinical staff should immediately give emergency treatment(s).

## FIRST ASSESS: **AIRWAY AND BREATHING**



## FIRST LINE EMERGENCY TREATMENT

If any emergency sign is present, nurse and others on clinical team should give the treatments, call for help, and establish IV access. After the Quick Check, test blood for glucose, malaria RDT, haemoglobin. Make sure a full set of vital signs and pulse oximetry are obtained from all patients with emergency signs and these findings are acted on.

> If suspect anaphylaxis, give 1:1000 epinephrine (adrenaline) IM – 0.5 ml

> If inadequate breathing, assist ventilation with bag valve mask.

Do not move neck if cervical spine injury possible –

> If foreign body aspiration, treat choking patient.

if 50 kg or above, 0.4 ml if 40 kg, 0.3 if 30 kg.

> Help patient assume position of comfort.

 $\succ$  If wheezing, give salbutamol.

immobilize spine

If obstructed airway:

For all patients:

> Manage airway.

Give oxygen 5 litres.

## **IF TRAUMA ALSO**

The trauma guidelines are applicable for all ages.\* For further management of trauma, use the IMEESC package for surgical or trauma related conditions. Also use the treatment guidelines in the IMPAC PCPNC and MCPC when managing Women of Childbearing Age who may be pregnant.

\* Use the IMCI ETAT for Children Less than 5 Years of Age (rather than these guidelines).

#### If head or neck trauma, manage airway and immobilize spine

#### Look for: Respiratory distress Treat tension pneumothorax Trachea deviated with emergency needle Decreased breath sounds decompression. Low SBP Give oxygen 5 litres. > If wound to chest wall which sucks air in when patient breathes in -> treat sucking chest wound. Treat pain (Section 20). $\succ$ If chest trauma, call for help for possible surgical intervention.

### **CONTINUE WITH URGENT** MANAGEMENT OF PATIENTS WITH **EMERGENCY SIGNS**

#### Finish remainder of Quick Check then:

<ul> <li>Count pulse, RR; measure SBP, SpO<sub>2</sub></li> <li>Titrate oxygen to SpO<sub>2</sub> 90</li> <li>Give antibiotics if fever and RR &gt;30 (see Section 3.2)</li> <li>Give antiviral if suspect influenza</li> <li>Insert IV and start fluids at 1 ml/kg/hour</li> </ul>		
If	Then	
Severely ill patient with difficult breathing: Consider silent chest with bronchospasm	See Section 3.2.	
lf moderate – severe wheeze continues	Give salbutamol (another dose) and ipratropium). See Section 3.2 for other causes wheezing	
Pinpoint pupils and suspect organophosphate intoxication	Give atropine. See Section 3.8.	
Pinpoint pupils and suspect opioid intoxication and RR <10 or SpO <sub>2</sub> <90	Assist ventilation and give naloxone. See Section 3.6.	
Suspect other poisoning or snakebite	See Sections 3.8 and 3.9.	
Suspect inhalation burn	See Sections 3.2 and 3.10.	

## **THEN ASSESS: CIRCULATION (SHOCK OR HEAVY BLEEDING)**

# Weak or fast pulse

**Capillary refill longer than three** seconds

# Check SBP, pulse

#### Do not move neck if cervical spine injury possible – immobilize spine

#### If SBP <90 mmHg or pulse >110 per minute or heavy bleeding:

> **Give oxygen** 5 litres if respiratory distress or SpO<sub>2</sub> <90.

#### If trauma and patient in shock (SBP <90, pulse >110) or suspect significant internal or external bleeding

> Give oxygen 5 litres if SpO<sub>2</sub> <90 or respiratory distress.  $\succ$  Give rapid IV fluids.  $\succ$  Keep warm.

#### Use standard precautions for all patients. Use droplet precautions if acute respiratory infection of concern. Add aerosol precautions if airway management or intubation. See Section 6.

#### Decide on type of shock and treat accordingly

lf	Then
Fever, consider septic shock and malaria	Give empirical antibiotics, antimalarial and glucose (if blood glucose is low or unknown)



# Is she pregnant?

- > Insert IV, give 1 litre bolus crystalloid (LR or NS) then reassess (see give fluids rapidly.
- **Keep warm** (cover).  $\succ$  If in second half pregnancy, place on her side (preferably on
- the left), not on back. If anaphylaxis, give 1:1000 epinephrine (adrenaline) IM – 0.5 ml if 50 kg or above, 0.4 ml if 40 kg, 0.3 if 30 kg.

> Urgently send blood for type and cross match.

#### If external bleeding:

> Apply pressure immediately to stop bleeding.

#### If suspect internal bleeding:

Uncontrolled, noncompressible haemorrhage (abdomen, chest, pelvis or around long bone fractures) requires emergency surgical intervention.

 $\succ$  If possible femur fracture – splint (see Section 4).  $\succ$  If possible pelvic fracture – apply pelvic binder. > Call for help and plan emergency surgical intervention (see Section 4). > If patient remains in shock after 2 litres of IV fluids – transfuse (see Section 4).

	Send blood culture if feasible before starting antibiotics. See Section 3.1.
Suspect heart failure, cardiogenic shock or severe anaemia	Be cautious with giving fluids. See Section 3.2.
Diarrhoea	Classify dehy-dration. If severe, give rapid fluids for shock and follow Fluid Plan C. See Sections 3.1.2 and 10.7.
Vaginal bleeding	Assess pregnancy status and amount of bleeding and treat.
Large nosebleed	See Section ?????.
Vomiting blood	See Section ?????.

### IF VAGINAL BLEEDING, SEE CHART ON MANAGEMENT OF VAGINAL BLEEDING.

# ALTERED LEVEL CONSCIOUS / CONVULSING

Is she pregnant?

Altered level consciousness Convulsing

#### Do not move neck if cervical spine injury possible

#### For all:

- $\succ$  Protect from fall or injury.
- > Manage airway and assist into recovery position.
- ➤ Give oxygen 5 litres.
- > Call for help but do not leave patient alone.
- Give glucose (if blood glucose is low or unknown).
- > Check (then monitor and record) level of consciousness on AVPU scale.

#### If convulsing:

- > Give diazepam IV or rectally.
- If convulsing in second half of pregnancy or post-partum up to one week, give magnesium sulfate rather than diazepam.

Then check SBP, pulse, RR, temperature.

#### If convulsions continue after 10 minutes:

- $\succ$  Continue to monitor airway, breathing, circulation.
- > Recheck glucose.
- > Give second dose diazepam (unless pregnant/post-partum).
- > Consult district clinician to start phenytoin (see Section 3.5).

#### Check for signs of serious head and spine trauma

> Immobilize spine.
➢ Give oxygen 5 litres.
Log-roll patient when moving.
Expose patient fully.
Look/feel for deformity of skull.
➤ Look for:
<ul> <li>pupils not equal or not reactive to light;</li> </ul>
<ul> <li>blood/fluid from ear or nose;</li> </ul>
<ul> <li>associated traumatic injuries (spine, chest, pelvis) (see Section 4).</li> </ul>
Call for help from district clinician/surgeon.

lf	Then
Altered consciousness	See Section 3.4.
Convulsions	See Section 3.5.
Fever	Give empirical antibiotics. Give antimalarials if in a malaria endemic area (see Section 11.25).
Pinpoint pupils and suspect organophosphate intoxication	Give atropine. See Section 3.8.
<b>Pinpoint pupils and suspect opioid</b> <b>intoxication</b> and RR <10 or SpO <sub>2</sub> <90	Assist ventilation and give naloxone. SeeSection 3.6.
Alcohol intoxication or withdrawal	See Section 3.7.
Poisoning	See Section 3.8.
Snakebite	See Section 3.9.

## PAIN FROM LIFE-THREATENING CAUSE

**OFTEN: NOT ABLE TO WALK; SWEATING; GUARDING AGAINST PAIN/ABNORMAL POSITION; VERY SILENT OR MOANING.** 

IF THESE PRESENT THEN CHECK SBP, PULSE, RR, TEMPERATURE AND LOOK FOR:



## **PRIORITY SIGNS AND SYMPTOMS**

**AFTER SCREENING FOR EMERGENCY SIGNS, SCREEN ALL PATIENTS FOR PRIORITY SIGNS** 

**Priority signs for infection control:** If cough or other signs of respiratory illness, apply source control (use of tissues, handkerchiefs or medical masks) on the patient in the waiting room when coughing or sneezing, and perform hand hygiene. If possible, accommodate patient at least 1 meter away from other patients or in a room, and evaluate as soon as possible – see Section 6.

#### **IN ALL CASES OF TRAUMA, CONSIDER:**

- > Was **alcohol** a contributor? If yes, counsel on harmful alcohol use.
- > Was **drug use** a contributor? If yes, counsel and arrange for treatment.
- > Was this a suicide attempt? If possible, ask the patient, were you trying to harm yourself? (See Section 10.11.) > Was abuse or sexual violence involved? (See Section 4.4.) > Was interpersonal violence a contributor? Is there a risk of further violence in retaliation? If yes, get help to interrupt this and prevent further violence.

### **PRIORITY SIGNS FOR URGENT CARE – THESE PATIENTS SHOULD NOT** WAIT IN QUEUE:

- Any respiratory distress/complaint of difficulty breathing.
- Violent behaviour toward self or others or very agitated.
- Very pale.
- Very weak/ill.
- Recent fainting.
- Bleeding:
- Large haemoptysis;
- GI bleeding (vomiting or in stools);
- External bleeding.
- Fractures or dislocations.
- Burns.
- Bites from rabid animal.
- Frequent diarrhoea >5 times per day.
- Visual changes.
- New loss of function (possible stroke).
- Rape/abuse (maintain a high index of suspicion).
- New extensive rash with peeling and mucous membrane involvement (Stevens-Johnson).
- Acute pain, cough or dyspnea, priapism, or fever in patiet with sickle-cell disease.

- $\geq$  If any respiratory distress/complaint of difficulty breathing measure SpO<sub>2</sub>; give oxygen 5 litres if SpO<sub>2</sub> <90 (see Sections 3.2 and 10.6).
- $\succ$  If wheezing, give salbutamol (see Section 3.2.4).
- $\succ$  If violent behaviour or very agitated, protect, calm, and sedate the patient as appropriate. Check glucose and SpO<sub>2</sub> and consider causes (see Section 3.4).

## Initiate interim management if clinician is not available:

- Measure haemoglobin if any bleeding, pale, weak, fainting, abdominal pain.
- If melena or vomiting blood, manage and admit.
- ➢ If large haemoptysis.
- If visible deformity, assess and treat possible fractures/dislocations (see Section 4).
- Manage burns (see Section 3.10).
- If suspect rape or abuse (see Section 4).
- > If painful vasoocclusive crisis from sickle-cell disease control pain, hydrate and give oxygen if SpO<sub>2</sub> <90 (see Section 10.18).

The patient needs clinical evaluation and should not wait in queue. Repeat Quick Check if in line more than 20 minutes.

# IF NO EMERGENCY SIGNS AND NO PRIORITY SIGNS: NON URGEN

- Patient can wait in queue.
- Provide routine care and use the appropriate sections.

Check SBP,

pulse and

temperature

Repeat Quick Check if condition changes.

