

### PEWS - ABCDEFG

**A Airway** Is the airway patent/maintainable/compromised? Is there difficulty breathing/speaking? Are there associated breath sounds?

**B Breathing** Look, Listen, Feel: Look - count RR; assess respiratory effort (i.e. use of accessory muscles, nasal flaring, abnormal rhythm, etc.); body position; colour. Listen - noisy breathing = upper airway secretions; stridor/wheeze = partial airway obstruction; grunting/gasping/apnoea. Feel - for deformities (i.e. surgical emphysema, crepitus).

**C Circulation** Record HR, measure CRT, BP.

**D Disability** Asses neurological status - alert/voice/pain/unresponsive; pupil size; glucose; Glasgow Coma Scale (older children).

**E Exposure** Temperature (consider core/peripheries); rash; pain; skin integrity (blood loss, lesions, wounds, drains); consider fluid balance

**DEFG Don't Ever Forget Glucose**

According to PEWS chart. RR = respiratory rate. HR = heart rate. BP= blood pressure. CRT = cap refill time.

### Signs of Deterioration

Abnormal RR/effort Outside usual parameters for age group.

Recession/accessory muscle use Subcostal/intercostal recession; tracheal tug.

Abnormal breath sounds Stridor/wheeze

Pulse Oximetry Value below 96%.

Oxygen Therapy Need for inspired oxygen.

Call for help if **head**

**bobbing/grunting/gasping/apnoea/central cyanosis** noted

RR = respiratory rate.

### Respiratory Failure

Initial stages Physiological cause: Attempt to compensate O2 deficit & airway obstruction; beginning hypoxia

Signs Restlessness; tachypnoea; tachycardia; diaphoresis

Imminent respiratory failure Physiological cause: Attempt to use accessory muscles to assist intake O2; persistent hypoxia; use up more O2 than obtained

Signs Tachypnoea, dyspnoea & tachycardia; nasal flaring; retractions; grunting/head bobbing; wheezing; hypoxia (<92%); difficulty speaking; anxiety/irritability; mood changes; headache; confusion

### Respiratory Failure (cont)

Ominous imminent respiratory arrest Physiological cause: Overwhelming O2 deficit; cerebral oxygenation affected (CNS changes ominous imminent respiratory arrest)

Signs Severe hypoxia (pO2 <60%); dyspnoea/bradypnoea/silent chest/apnoea; bradycardia; cyanosis; stupor/coma

pO2 = oxygen saturations.

### Other Diagnostic Tests

SaO2 saturations Arterial blood gas

Bloods FBC - WCC slightly raised

Blood gases pH 7.35-7.45; pO2 75-100mmHg (10-13.3kPa); pCO2 36-46mmHg (4.8-6.1kPa); Bicarbonate HCO<sup>3</sup> 22-30mmol/L<sup>-1</sup>; Base excess -2.3 - +2.3mmol/L

Chest x-ray

Spirometry PEF; FEV1

Common abnormalities Respiratory acidosis: pCO2 and HCO<sup>3</sup> increased, pH and pO2 decreased.

SaO2 = oxygen saturations. FBC = full blood count. WCC = white cell count. pO2 = partial pressure oxygen. pCO2 = partial pressure carbon dioxide. PEF = peak expiratory flow. FEV1 = forced expiratory volume in 1 second.

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