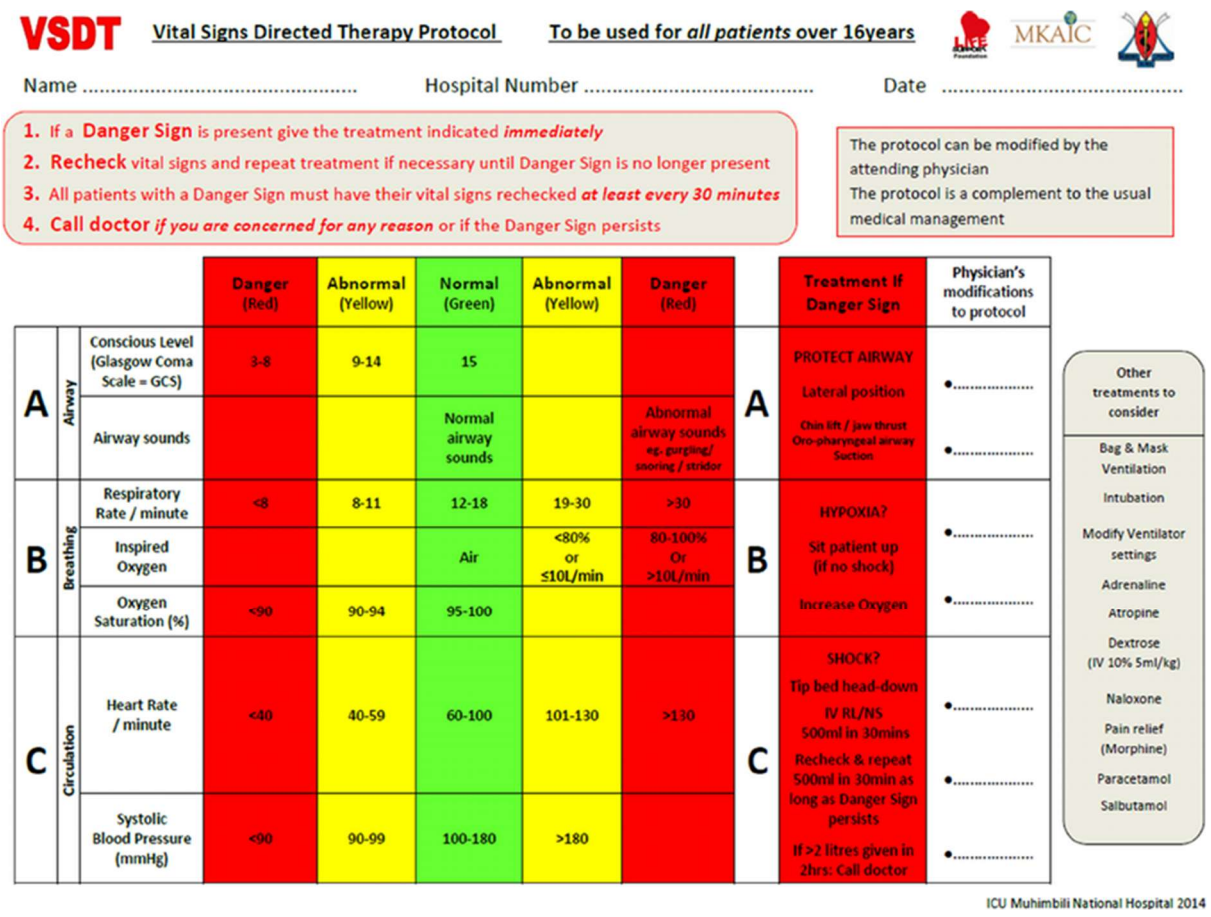
Additional File 4: Example Early Warning Score system

Vital Signs Directed Therapy (VSDT) system



VSDT Vital Signs Directed Therapy Protocol — To be used for *all patients* over 16years

Name ..... Hospital Number ..... Date .....

1. If a **Danger Sign** is present give the treatment indicated ***immediately***
2. **Recheck** vital signs and repeat treatment if necessary until Danger Sign is no longer present
3. All patients with a Danger Sign must have their vital signs rechecked ***at least every 30 minutes***
4. **Call doctor** ***if you are concerned for any reason*** or if the Danger Sign persists

The protocol can be modified by the attending physician
The protocol is a complement to the usual medical management

			Danger (Red)	Abnormal (Yellow)	Normal (Green)	Abnormal (Yellow)	Danger (Red)		Treatment If Danger Sign	Physician's modifications to protocol
A	Airway	Conscious Level (Glasgow Coma Scale = GCS)	3-8	9-14	15			A	PROTECT AIRWAY Lateral position Chin lift / jaw thrust Oro-pharyngeal airway Suction	•..... •.....
		Airway sounds			Normal airway sounds		Abnormal airway sounds eg. gurgling/ snoring / stridor			
B	Breathing	Respiratory Rate / minute	<8	8-11	12-18	19-30	>30	B	HYPOXIA? Sit patient up (if no shock) Increase Oxygen	•..... •.....
		Inspired Oxygen			Air	<80% or ≤10L/min	80-100% Or >10L/min			
		Oxygen Saturation (%)	<90	90-94	95-100					
C	Circulation	Heart Rate / minute	<40	40-59	60-100	101-130	>130	C	SHOCK? Tip bed head-down IV RL/NS 500ml in 30mins Recheck & repeat 500ml in 30min as long as Danger Sign persists If >2 litres given in 2hrs: Call doctor	•..... •..... •.....
		Systolic Blood Pressure (mmHg)	<90	90-99	100-180	>180				

Other treatments to consider
- Bag & Mask Ventilation
- Intubation
- Modify Ventilator settings
- Adrenaline
- Atropine
- Dextrose (IV 10% 5ml/kg)
- Naloxone
- Pain relief (Morphine)
- Paracetamol
- Salbutamol

ICU Muhimbili National Hospital 2014