
Emergency Department Triage

June 9, 2020

Presented by Dr. Jennifer Bryan

Moderated by Dr. Dominick Shelton

Special thank you to University Health Network
Emergency Department nurses Andrea Adjmul
and Ruth Appiah-Boateng



Global Health
Emergency Medicine

This session will be recorded

We are recording this Zoom session so that it can be watched again at your convenience, and so that we can share it with your colleagues who were not able to join us today.

If you would prefer that this recording **not** be shared with your EM colleagues, please email amcknight@ghem.ca within 24 hours of the session.

We will share the presentation slides and other materials (journal articles, etc.) by email; you will have access to all materials regardless of whether the recording is shared.



Please also note:

The information in this presentation and the video recording is up to date as of the date it was recorded June 9, 2020

It has not been updated to include any subsequent advances in practice, and the information presented in this video does not replace hospital, health centre, or governmental guidelines.



Disclosure Statement

I have not received any financial or in-kind support from any commercial organization and have no conflicts of interest to declare.



“Many deaths in hospital occur within 24 hours of admission. Some of these deaths can be prevented if very sick patients (especially children) are **quickly identified** on their arrival and **treatment is started without delay.**”

-EMSSA South African Triage Scale Manual, 2012



Outline

- What is triage
- Why is triage important
- What are the core principles of triage
- What triage strategies are in place around the world (CTAS, SATS, ESI)
- Triage controversies



What is triage? Why does it matter?



What is Triage?

- A process of prioritizing patients based on the severity of their condition.
- Rapidly assess patients with urgent, life-threatening conditions
- Focusing limited resources effectively



Reasons for triage

Ensures critically ill receive priority attention

Predicts resources needed

Predicts how long the patient can safely wait

Supports effective use of resources

Supports surveillance

Targets for tracking ED performance

‘Not all patients are as well as they appear; not all patients are as sick as they think’

-CAEP Canadian Triage and Acuity Scale Education Manual, 2012

Routes of entry to triage

- Telephone
- Pre-hospital
- **Emergency Department**
- Disaster triage



Triage requirements

Structural Requirements			
Does the triage area meet the following criteria:		Yes	No
1	Is the triage area a dedicated space?		
2	Is the triage area well signed?		
3	Is the triage area secure (i.e. behind the security gate, or in easy view of security staff)?		
4	Is the triage area at least 10 square meters in size (i.e. should be able to accommodate a nurse, patient in a wheelchair and relative or carer)?		

Appendix A: <https://emssa.org.za/wp-content/uploads/2017/10/SATS-Manual.pdf>



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Content Requirements

Does the triage area contain the following:		Yes	No
1	A desk and chair?		
2	Triage paperwork for adult, children and infants?		
3	A wall clock with a second hand?		
4	A stethoscope?		
5	A low reading thermometer?		
6	Dry dressings and bandages?		
7	Gloves?		
8	Sphygmomanometer (manual, digital or electronic)?		
9	Blood glucose monitor?		
10	A measuring tape OR marks displayed on wall in triage area to measure children (i.e one mark at 95cm and one at 150 cm)?		
11	2 x different SATS posters prominently displayed in triage area?		
12	SATS manual readily available for triage office as a source of info?		
13	SATS patient info leaflet prominently displayed in the waiting area?		
14	Triage register or computer with register?		
15	White board to track and communicate to other staff acuity of those triaged?		

Triage systems

- CTAS: Canadian Triage Assessment Scale
- ESI: Emergency Severity Index
- SATS: South African Triage Scale
- ETAT: Emergency Triage Assessment and Treatment
- IMAI: WHO Integrated Management of Adult/Adolescent Illness
- Australasian Triage Scale
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Triage: The Canadian Experience

- Canadian Triage and Acuity Scale (CTAS)
- First published in 1998
- Adult and pediatric
- Goal is to optimize time to MD assessment
- Triage is by nurses in the ED and pre-hospital triage by paramedics



How does CTAS work?

Level 1 - Resuscitation

Level 2 - Emergent

Level 3 - Urgent

Level 4 - Less Urgent

Level 5 - Non-Urgent



CTAS Level	Conditions:	Time to MD	Example
Level 1	Resuscitation: Threats to life or limb (requires immediate aggressive intervention)	Immediate	Code arrest Shock states Major trauma
Level 2	Emergent: Potential threat to life , limb or function, requiring rapid intervention	<15 minutes	Altered mental status Head injury
Level 3	Urgent: Potential progress to serious problem	<30 minutes	Moderate asthma Seizure (known)
Level 4	Semi-urgent: stable but require assessment	1-2 hours	Fractures, sprains, lacerations
Level 5	Non-urgent: minor or chronic problems, unlikely to deteriorate	>2 hours	Minor lacerations (not requiring closure) Sprains Vomiting, no dehydration

“Time to MD” is the goal, but not often the reality except for CTAS1



Triage assessment includes

Critical Look - rapid visual assessment



Infection Control



Presenting Complaint



1st Order Modifiers



2nd Order Modifiers



CTAS Level – Assign Triage Level



Reassessment

Critical look

- 3-5 seconds
- ABCDs
- Immediate action if indicated



Level 1 presentations

- Cardiac arrest
- Respiratory arrest
- Major trauma (in shock)
- Shortness of breath (severe respiratory distress)
- Altered level of consciousness (unconscious, GCS 3-9)



Infection control screening

General
COVID-19



Global Health
Emergency Medicine

Chief complaint

Substance Misuse (Subst) Substance misuse / Intoxication Overdose ingestion Substance withdrawal	ENT – Nose Epistaxis Nasal congestion / Hay fever Foreign body, nose URTI complaints Nasal trauma	Cardiovascular Cardiac arrest (non traumatic) Cardiac arrest (traumatic) Chest pain (cardiac features) Chest pain (non cardiac features) Palpitations / Irregular heart beat Hypertension General weakness Syncope / Pre-syncope Edema, generalized Bilateral leg swelling / Edema Cool pulseless limb Unilateral reddened hot limb	Genitourinary (Gu) Flank pain Hematuria Genital discharge / lesion Penile swelling Scrotal pain and/or swelling Urinary retention UTI complaints Oliguria Polyuria Genital trauma	Skin (Skin) Bite Sting Abrasion Laceration / Puncture Burn Blood and body fluid exposure Pruritus Rash Localized swelling / redness Wound check Other skin conditions Lumps, bumps, calluses Redness / tenderness, breast Rule out infestation Cyanosis Spontaneous bruising Foreign body, skin Removal staples / sutures
Mental health & psychosocial Depression / Suicidal / Deliberate self harm Anxiety / Situational crisis Hallucinations / Delusions Insomnia Violent / Homicidal behaviour Social problem Bizarre behaviour Concern for patient's welfare Paediatric Disruptive behaviour	ENT – Ears Earache Foreign body ear Loss of hearing Tinnitus Discharge, ear Ear injury	Gastrointestinal (GI) Abdominal pain Anorexia Constipation Diarrhea Foreign body in rectum Groin pain / mass Vomiting and/or nausea Rectal / Perineal pain Vomiting blood Blood in stool / Melena Jaundice Hiccoughs Abdominal mass / distention Anal / Rectal trauma Oral / Esophageal Foreign Body Feeding difficulties in newborn Neonatal jaundice	Orthopedic (Ortho) Back pain Traumatic back / spine injury Amputation Upper extremity pain Lower extremity pain Upper extremity injury Lower extremity injury Joint(s) swelling Paediatric gait disorder / painful walk Cast check	General & Minor (Gen) Exposure to communicable disease Fever Hyperglycemia Hypoglycemia Direct referral for consultation Dressing change Imaging tests Medical device problem Prescription / Medication request Ring removal Abnormal lab values Pallor / Anemia Post-operative complications Inconsolable crying in infants Congenital problem in children Minor complaints NOS
Neurologic (Cns) Altered level of consciousness Confusion Vertigo Headache Seizure Gait disturbance / Ataxia Head injury Tremor Extremity weakness / Symptoms of CVA Sensory loss / Parasthesias Floppy child	ENT – Mouth, Throat, Neck Dental / Gum problems Facial trauma Sore throat Neck swelling / pain Neck trauma Difficulty swallowing / Dysphagia Facial pain (non-traumatic / non-dental)	Ob – Gyn (Ob - Gyn) Menstrual problems Foreign body, vagina Vaginal discharge Sexual assault Vaginal bleed Labial swelling Pregnancy issues < 20 wks Pregnancy issues > 20 wks Vaginal pain / Itch	Trauma (T) Major trauma – penetrating Major trauma – blunt Isolated chest trauma – penetrating Isolated chest trauma – blunt Isolated abdominal trauma – penetrating Isolated abdominal trauma – blunt	
Ophthalmology (Ophth) Chemical exposure, eye Foreign body, eye Visual disturbance Eye pain Red Eye, discharge Photophobia Diplopia Periorbital swelling Eye trauma Re-check eye	Respiratory (Resp) Shortness of breath Respiratory arrest Cough / Congestion Hyperventilation Hemoptysis Respiratory foreign body Allergic reaction Stridor Wheezing – no other complaints Apneic spells in infants			
			ENVIRONMENTAL Frostbite / Cold injury Noxious inhalation Electrical injury Chemical exposure Hypothermia Near Drowning	

Modifiers

- Vital Signs

- Respiratory DistressAirway
.....Breathing
- Hemodynamic StatusCirculation
- Level of ConsciousnessDisability
- Temperature

- Other

- Pain Score, Bleeding Disorder, Mechanism of Injury

Triage is a dynamic process

Reassessment after initial triage:

CTAS LEVEL	Nursing reassessment
Level 1	Continuous
Level 2	Every 15 minutes
Level 3	Every 60 minutes
Level 4	Every 60 minutes
Level 5	Every 160 minutes



CTAS 2 example

52-year old male

Reported a 1 hour history of heavy, central substernal chest pain, which has now resolved

Vital signs: RR 20, HR 68, BP 132/76

https://caep.ca/wp-content/uploads/2017/06/module_2_slides_v2.5b_2013.pdf



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Emergency Severity Index

What resources are needed for disposition?

No expected time intervals



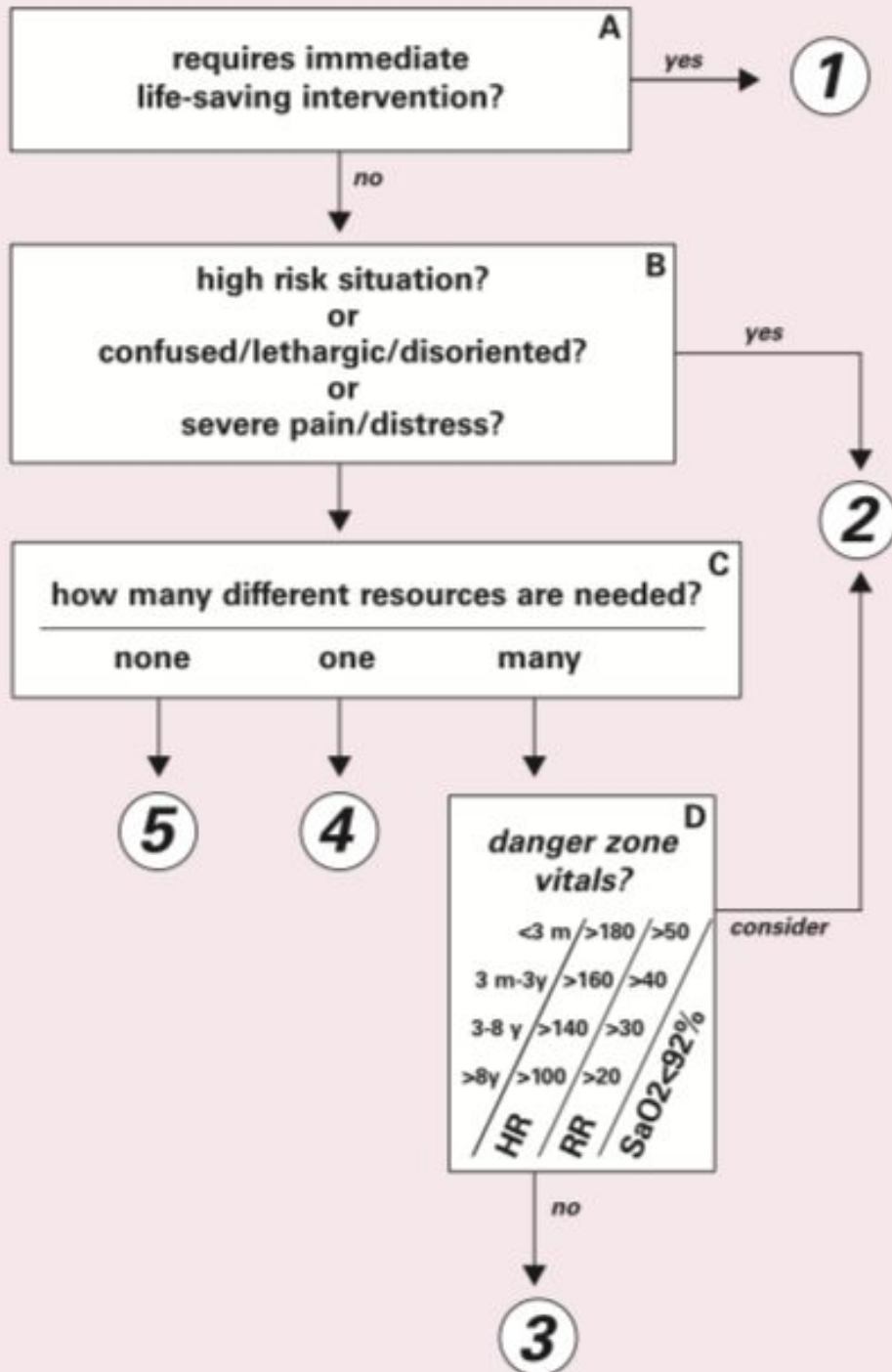
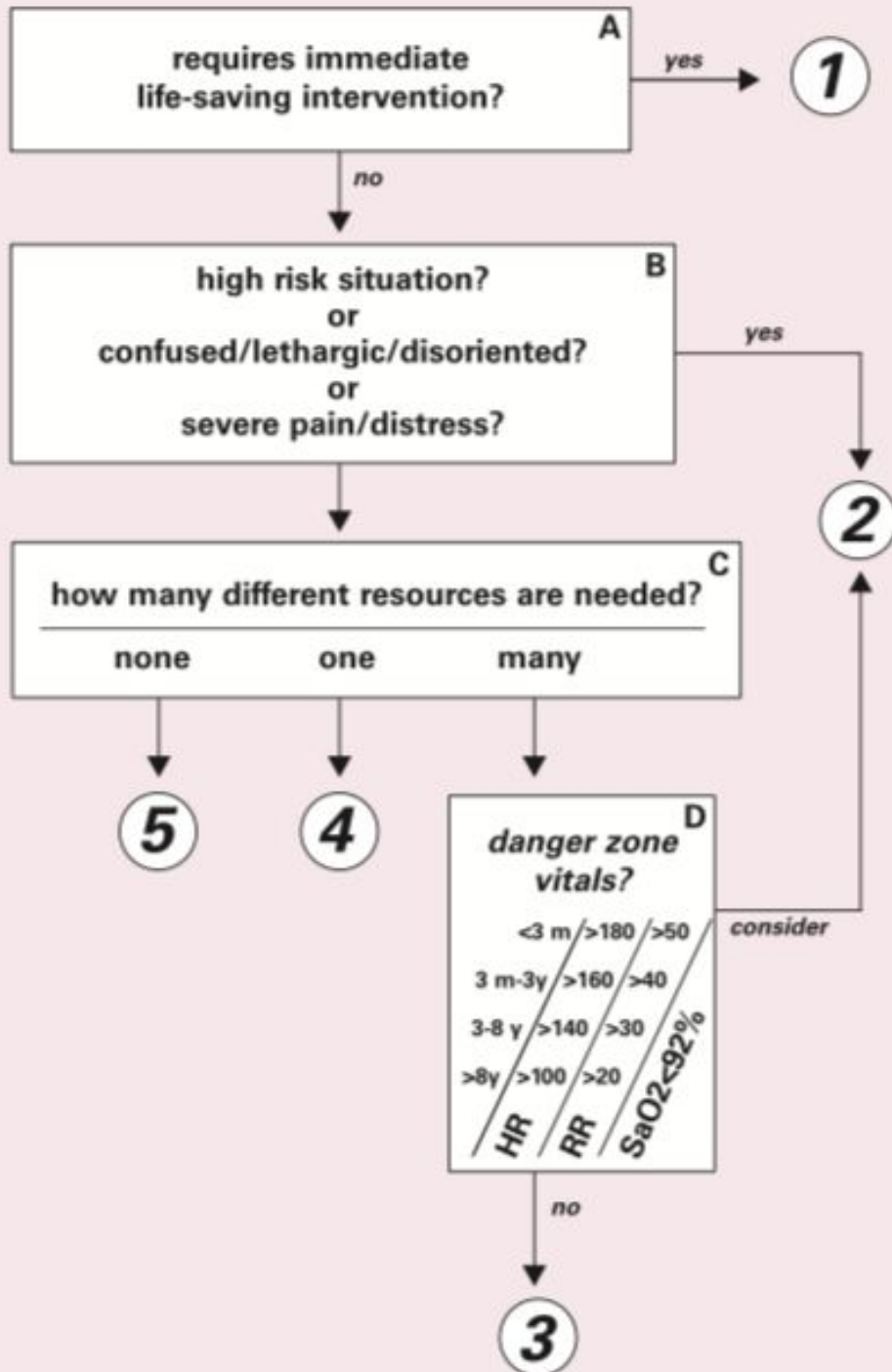


Table 2-1. Immediate Life-saving Interventions

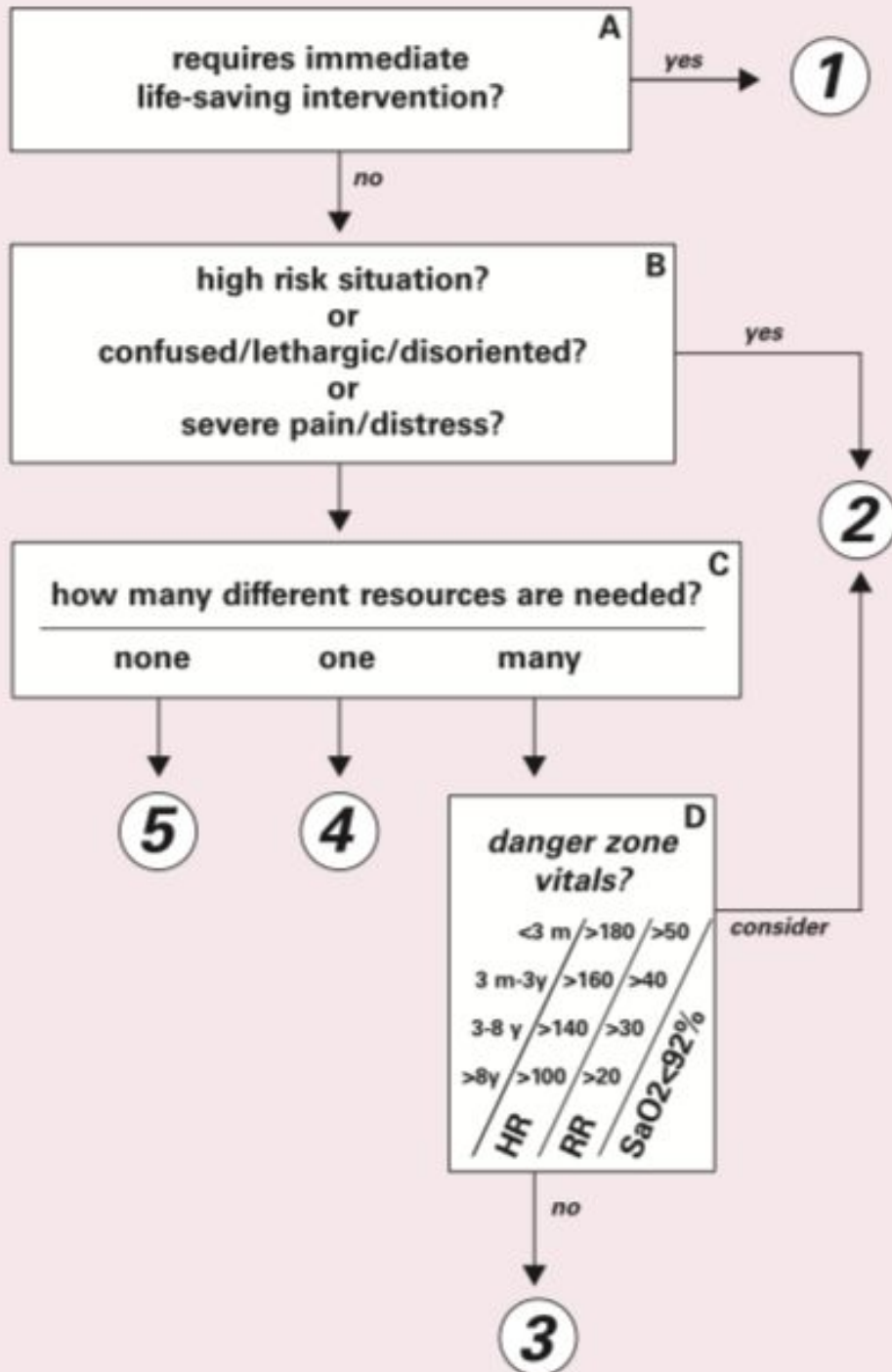
	Life-saving
Airway/breathing	<ul style="list-style-type: none">• BVM ventilation• Intubation• Surgical airway• Emergent CPAP• Emergent BiPAP
Electrical Therapy	<ul style="list-style-type: none">• Defibrillation• Emergent cardioversion• External pacing
Procedures	<ul style="list-style-type: none">• Chest needle decompression• Pericardiocentesis• Open thoracotomy• Intraosseous access
Hemodynamics	<ul style="list-style-type: none">• Significant IV fluid resuscitation• Blood administration• Control of major bleeding
Medications	<ul style="list-style-type: none">• Naloxone• D50• Dopamine• Atropine• Adenocard



ESI

Resources	Not Resources
<ul style="list-style-type: none">• Labs (blood, urine)• ECG, X-rays• CT-MRI-ultrasound-angiography	<ul style="list-style-type: none">• History & physical (including pelvic)• Point-of-care testing
<ul style="list-style-type: none">• IV fluids (hydration)	<ul style="list-style-type: none">• Saline or heparin
<ul style="list-style-type: none">• IV or IM or nebulized medications	<ul style="list-style-type: none">• PO medications• Tetanus immunization• Prescription refills
<ul style="list-style-type: none">• Specialty consultation	<ul style="list-style-type: none">• Phone call to PCP
<ul style="list-style-type: none">• Simple procedure =1 (lac repair, foley cath)• Complex procedure =2 (conscious sedation)	<ul style="list-style-type: none">• Simple wound care (dressings, recheck)• Crutches, splints, slings





ESI level?

21y M, unrestrained driver

Moaning, moving all extremities

BP 74/50, HR 132, RR 36, SPO2 99%, T 36.5 °C



ESI level 1

21y M, unrestrained driver

Moaning, moving all extremities moving all extremities

BP 74/50, HR 132, RR 36, SPO2 99%, T 36.5 °C

**Requires immediate
lifesaving intervention.**

Shock (hypotension,
tachycardia, tachypnea)
and concerning
mechanism; needs fluid/
blood for resuscitation



“ a triage scale developed in one country or region may not be applicable elsewhere”

-Abdelwahab, Rehab, Hannah Yang, and Hareya Gebremedhin Teka. "A quality improvement study of the emergency centre triage in a tertiary teaching hospital in northern Ethiopia." *African Journal of Emergency Medicine* 7.4 (2017): 160-166.





FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA
MINISTRY OF HEALTH

ETHIOPIAN HOSPITAL REFORM IMPLEMENTATION GUIDELINES

Volume 1, May 2010



Ethiopian Hospital Management Initiative



Global Health
Emergency Medicine

South African Triage Scale

Colour	Red	Orange	Yellow	Green	Blue
TEWS	7 or more	5 - 6	3 - 4	0 - 2	Dead
Target time to treat	Immediate	Less than 10 min	Less than 60 min	Less than 240 min	
Mechanism of injury		High energy transfer			
Presentation		Shortness of breath – acute		All other patients	Dead
		Coughing blood			
		Chest pain	Haemorrhage – controlled		
		Haemorrhage – uncontrolled			
		Seizure – current	Seizure – post ictal		
			Focal neurology – acute		
			Level of consciousness reduced		
			Psychosis/aggression		
			Threatened limb		
			Dislocation – other joint		
			Dislocation – finger or toe		
			Fracture – compound		
Burn – face/ inhalation		Burn over 20%	Burn – other		
		Burn – electrical			
		Burn – circumferential			
		Burn – chemical			
Hypoglycaemia - glucose less than 3		Poisoning/overdose	Abdominal pain		
		Diabetic – glucose over 11 & ketonuria	Diabetic – glucose over 17 (no ketonuria)		
		Vomiting – fresh blood	Vomiting – persistent		
Pregnancy and abdominal trauma or pain		Pregnancy and trauma	Pregnancy and trauma		
		Pregnancy and PV bleed	Pregnancy and PV bleed		
Pain		Severe	Moderate	Mild	
	Senior health care professional's discretion				



The five step approach

Step 1: Look for emergency signs and ask for the presenting complaint

Step 2: Look for very urgent OR urgent signs

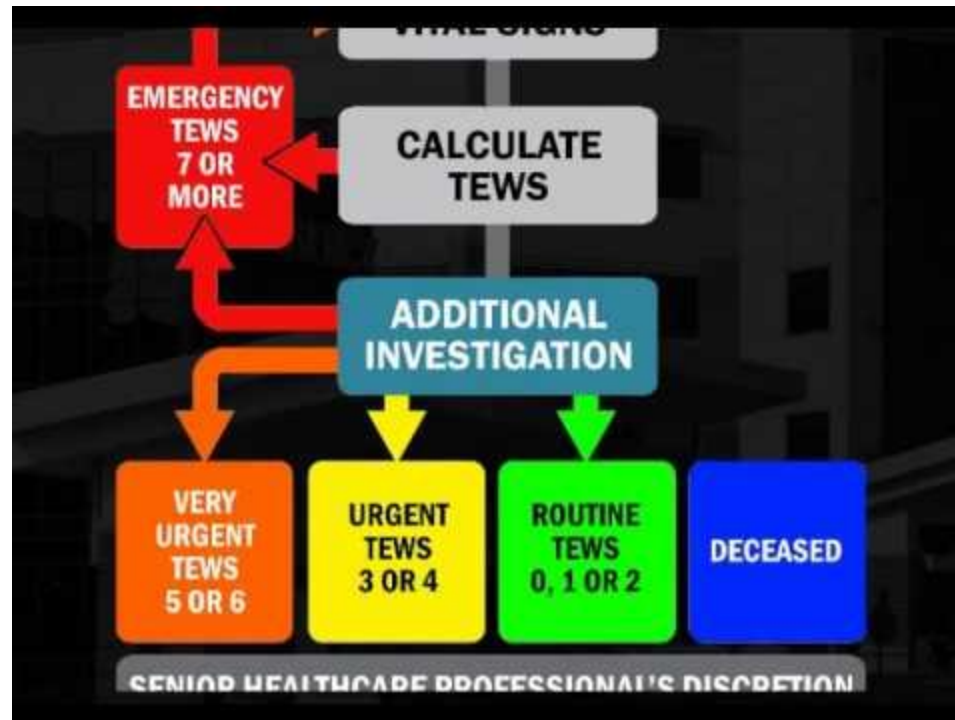
Step 3: Measure the vital signs and calculate the TEWS

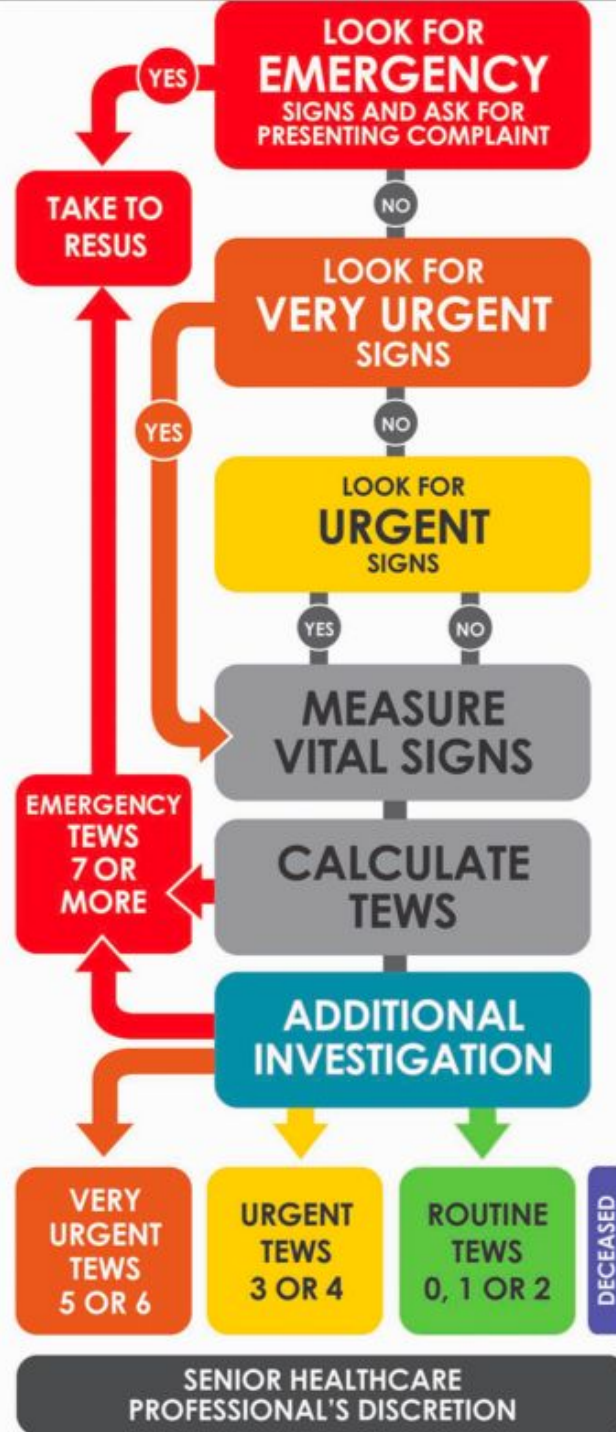
Step 4: Check key additional investigations

Step 5: Assign final triage priority level



South African Triage Scale





EMERGENCY

Obstructed Airway - not breathing

Seizure- current

Burn - facial / inhalation

Hypoglycaemia - glucose less than 3

Cardiac arrest

VERY URGENT

High energy transfer (severe mechanism of injury)

Shortness of breath - acute

Level of consciousness reduced / confused

Coughing blood

Chest pain

Stabbed neck

Haemorrhage - uncontrolled (arterial bleed)

Seizure- post ictal

Focal neurology - acute (stroke)

Aggression

Threatened limb

Eye Injury

Dislocation of larger joint (not finger or toe)

Fracture - compound (with a break in skin)

Burn over 20%

Burn - electrical

Burn - circumferential

Burn - chemical

Poisoning / Overdose

Diabetic - glucose over 11 & ketonuria

Vomiting fresh blood

Pregnancy and abdominal trauma

Pregnancy and abdominal pain

Severe pain

URGENT

Haemorrhage - controlled

Dislocation of finger OR toe

Fracture - closed (no break in skin)

Burn - other

Abdominal pain

Diabetic- glucose over 17 (no ketonuria)

Vomiting persistently

Pregnancy and trauma

Pregnancy and PV bleed

Moderate pain



Triage Early Warning Score

ADULT TRIAGE SCORE								© South African Triage Group 2008
	3	2	1	0	1	2	3	
Mobility				Walking	With Help	Stretcher/ Immobile		Mobility
RR		less than 9		9-14	15-20	21-29	more than 29	RR
HR		less than 41	41-50	51-100	101-110	111-129	more than 129	HR
SBP	less than 71	71-80	81-100	101-199		more than 199		SBP
Temp		Cold OR Under 35		35-38.4		Hot OR Over 38.4		Temp
AVPU		Confused		<u>A</u> lert	Reacts to <u>V</u> oice	Reacts to <u>P</u> ain	<u>U</u> nresponsive	AVPU
Trauma				No	Yes			Trauma
over 12 years / taller than 150cm								



Additional investigations

Tachypnea: O2 saturation

Reduced LOC, change in mobility, recent seizure, hx of diabetes: random glucose

Abdominal pain in female patient: pregnancy test

Chest pain: ECG



Additional tasks

PROBLEM	IMMEDIATE TASKS
1. Temperature 38.5° or more	Paracetamol 1 g orally stat (document in the notes)
2. Temperature 35° or less	Warm the patient with blankets if available
3. Diabetes and hyperglycaemia (glucotest 11 mmol/L or more)	Urine dipstick to check for ketones
4. History of bleeding	Finger prick haemoglobin
5. Bleeding PR, PO or from the site of trauma	Finger prick haemoglobin
6. Abdominal pain or backache in males	Urine dipsticks
7. PV bleeding	Urine dipsticks, Urine pregnancy test Finger prick haemoglobin



South African Triage Scale

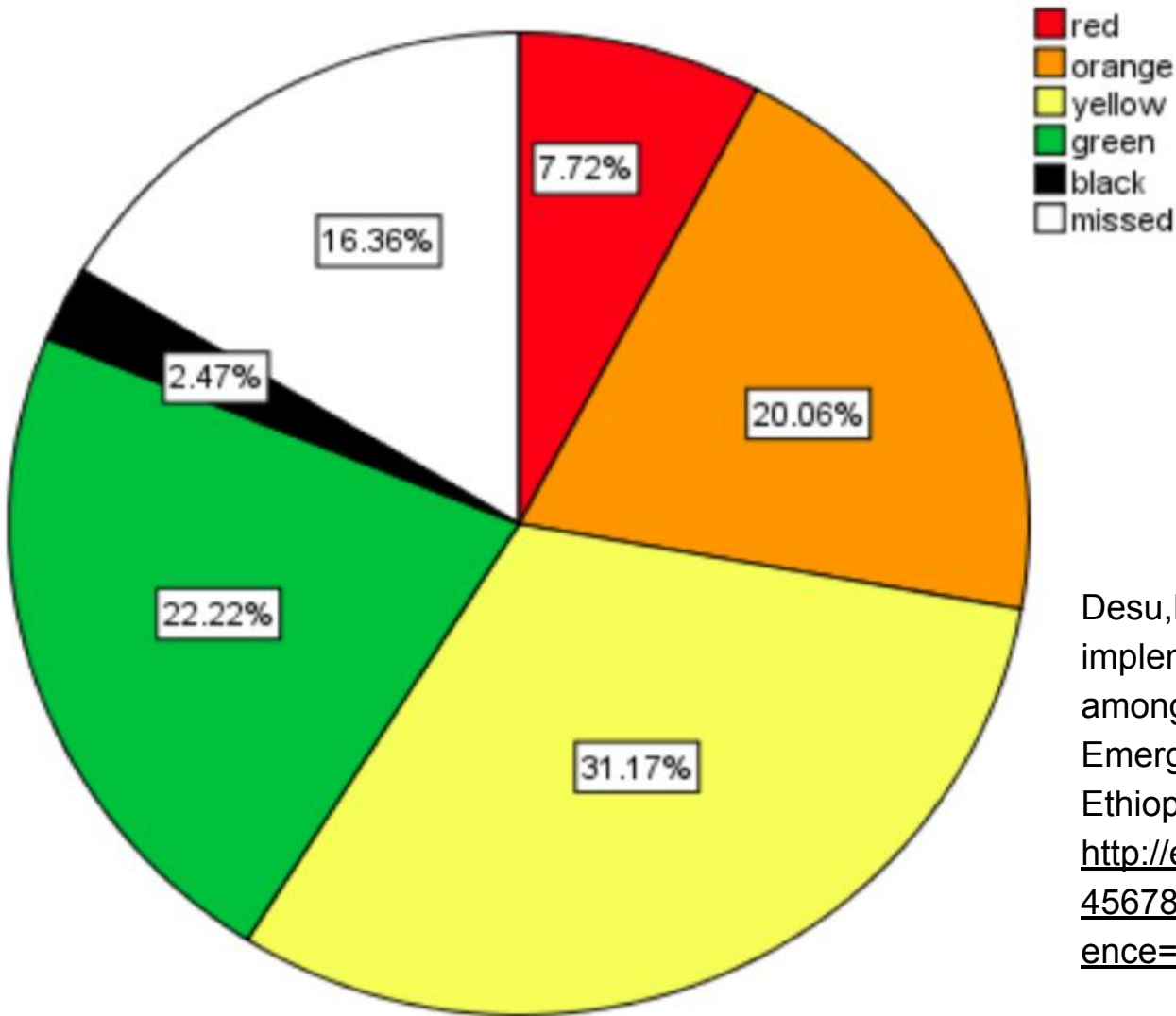
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Mechanism of injury		High energy transfer			
Presentation		Shortness of breath - acute			
		Coughing blood			
		Chest pain			
		Haemorrhage - uncontrolled			
	Seizure - current	Seizure - post ictal		ALL OTHER PATIENTS	
		Focal neurology - acute			
		Level of consciousness reduced			
		Psychosis / Aggression			
		Threatened limb			
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	Vomiting - fresh blood	Vomiting - persistent			
	Pregnancy & abdominal trauma or pain	Pregnancy & trauma			
Pain		Pregnancy & PV bleed		Mild	
	Senior Healthcare Professional's Discretion				



Priority COLOUR	Target time	Management
RED	IMMEDIATE	Take to the resuscitation room for emergency management
ORANGE	< 10 mins	Refer to majors for very urgent management
YELLOW	< 1 hour	Refer to majors for urgent management
GREEN	< 4 hours	Refer to designated area for non-urgent cases
BLUE	< 2 hours	Refer to doctor for certification



Triage at TASH March-April 2019



Desu, Birhanu. Assessing triage implementation and factors affecting it among patients visited TASH Adult Emergency Department, Addis Ababa, Ethiopia. Residency thesis. June 2019. <http://etd.aau.edu.et/bitstream/handle/123456789/21234/Birhanu%20Desu.pdf?sequence=1&isAllowed=y>



What is your emergency?

- 50y F
- 1h severe chest pain
- Radiates to her left shoulder



Adult SATS Chart



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EMERGENCY

Not breathing

Seizure- current

Burn - facial / inhalation

Hypoglycaemia - glucose less than 3

Cardiac arrest

Obstructed Airway - Not breathing

VERY URGENT

Level of consciousness reduced / confused

High energy transfer (severe mechanism of injury)

Shortness of breath - acute

Coughing blood

Chest pain

Stabbed neck OR chest

Haemorrhage - uncontrolled (arterial bleed)

Seizure- post ictal

Focal neurology - acute (stroke)

Aggression

Threatened limb

Dislocation of larger joint (not finger or toe)

Fracture - compound (with a break in skin)

Burn over 20%

Burn - electrical

Burn - circumferential

Burn - chemical

Poisoning / Overdose

Diabetic - glucose over 11 & ketonuria

Vomiting fresh blood

Pregnancy and abdominal trauma

Pregnancy and abdominal pain

Severe pain



Global Health
Emergency Medicine

Adult SATS Chart



EMERGENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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- RR16
 - HR 105
 - BP145/90 mmHg
 - T 36.2°C
 - AVPU: Alert



Triage Early Warning Score=?

ADULT TRIAGE SCORE								© South African Triage Group 2008
	3	2	1	0	1	2	3	
Mobility				Walking	With Help	Stretcher/ Immobile		Mobility
RR		less than 9		9-14	15-20	21-29	more than 29	RR
HR		less than 41	41-50	51-100	101-110	111-129	more than 129	HR
SBP	less than 71	71-80	81-100	101-199		more than 199		SBP
Temp		Cold OR Under 35		35-38.4		Hot OR Over 38.4		Temp
AVPU		Confused		<u>A</u> lert	Reacts to <u>V</u> oice	Reacts to <u>P</u> ain	<u>U</u> nresponsive	AVPU
Trauma				No	Yes			Trauma
over 12 years / taller than 150cm								

RR16, HR 105, BP145/90 mmHg, T 36.2°C, AVPU: Alert

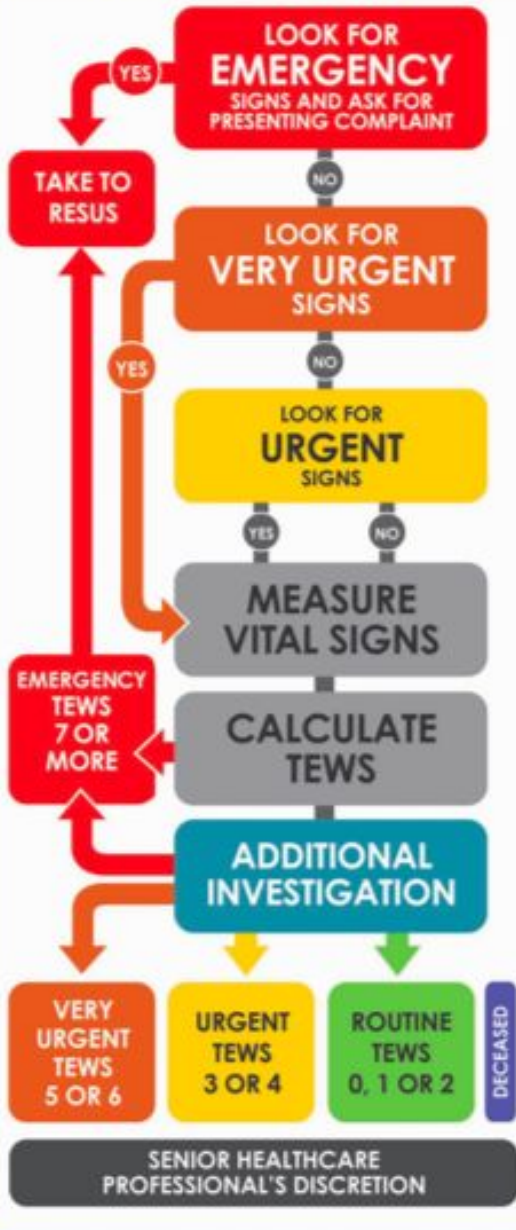
Triage Early Warning Score=2

ADULT TRIAGE SCORE								© South African Triage Group 2008
	3	2	1	0	1	2	3	
Mobility				Walking	With Help	Stretcher/ Immobile		Mobility
RR		less than 9		9-14	15-20	21-29	more than 29	RR
HR		less than 41	41-50	51-100	101-110	111-129	more than 129	HR
SBP	less than 71	71-80	81-100	101-199		more than 199		SBP
Temp		Cold OR Under 35		35-38.4		Hot OR Over 38.4		Temp
AVPU		Confused		Alert	Reacts to <u>V</u> oice	Reacts to <u>P</u> ain	<u>U</u> nresponsive	AVPU
Trauma				No	Yes			Trauma

over 12 years / taller than 150cm

RR16, HR 105, BP145/90 mmHg, T 36.2°C, AVPU: Alert

Adult SATS Chart



EMERGENCY

- Not breathing
- Severe chest
- Burn - facial / inactivation
- Hypoglycaemia - glucose less than 3
- Cardiac arrest
- Obstructed Airway - Not breathing

VERY URGENT

- Level of consciousness reduced / confused
- High energy transfer (severe mechanism of injury)
- Shortness of breath - acute
- Coughing blood
- Chest pain
- Stabbed neck OR chest
- Haemorrhage - uncontrolled (arterial bleed)
- Severe post fall
- Facial neurology - acute (stroke)
- Aggression
- Tracheal imp
- Dislocation of finger (not finger or toe)
- Fracture - compound (with a break in skin)
- Burn over 20%
- Burn - electrical
- Burn - circumferential
- Burn - chemical
- Poisoning / Overdose
- Diabetic - glucose over 11 & ketonuria
- Vomiting fresh blood
- Pregnancy and abdominal trauma
- Pregnancy and abdominal pain
- Severe pain

URGENT

- Haemorrhage - controlled
- Dislocation of finger OR toe
- Fracture - closed (no break in skin)
- Burn - other
- Abdominal pain
- Diabetic - glucose over 17 (no ketonuria)
- Vomiting persistently
- Pregnancy and trauma
- Pregnancy and PV bleed
- Moderate pain

ADULT TEWS

	0	1	2	3	4	5	6
Alertness	Awake	Awake	Awake	Awake	Awake	Awake	Awake
Vital Signs							
TEWS	0	1	2	3	4	5	6
Time to Resus							

CHECK FOR ADDITIONAL INVESTIGATIONS

- FRM scores 1 point or more on SATS
- Reduced level of consciousness (not alert including confused)
- Diabetic and Hypoglycaemia (glucose 1.1 mmol/L or more)
- Unable to sit up / need to lie down
- Chest pain
- Active seizure / fiting
- History of diabetes
- Hypoglycaemia (glucose 3 mmol/L or less)
- Abdominal pain or obstetric female

- Check SpO2 and hand over to SHCP to give O2
- Do a finger stick glucose if patient is diabetic
- Do a finger stick glucose and hand over to SHCP
- Urine dipstick to check for ketones
- Do a finger stick glucose and hand over to SHCP
- Do a finger stick glucose and hand over to SHCP for active - NO intramuscular
- Do a finger stick glucose and hand over to SHCP
- Urine dipstick and urine pregnancy test



Adult SATS Chart



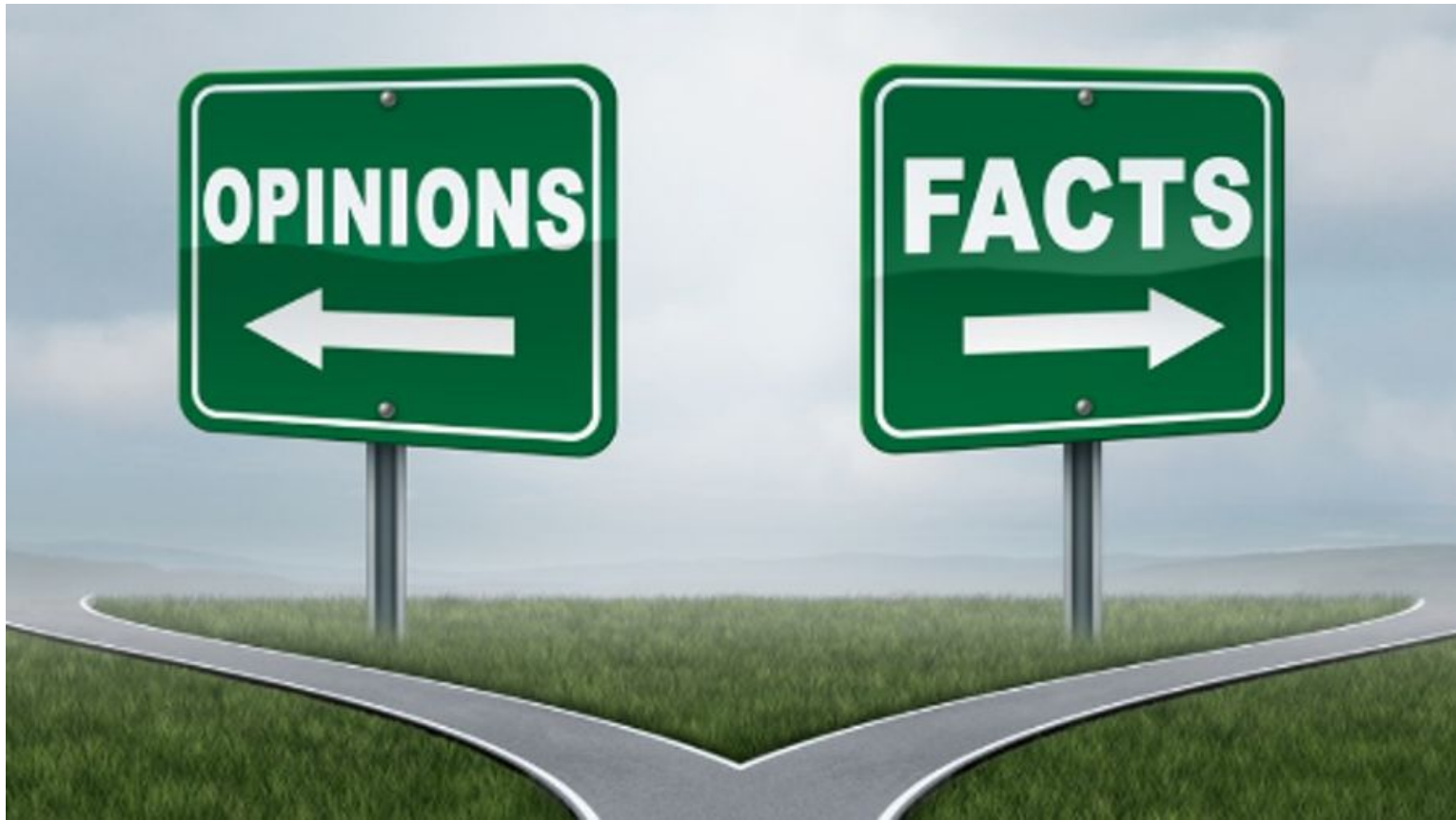
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Questions so far?



Triage controversies



Limitations of triage

Access block

Subjectivity (uptriage, downtriage)

Undertriage of special populations





CJEM
@CJEMonline



VOTE NOW: The [#CJEMDebate](#) for Sept is [#Triage](#) - do you support formal triage or a quick sorting system? [@Andrusiek](#) proposes that triage should be simple, to "put them in the right place" [#MichaelBullard](#) responds that systems such as [#CTAS](#) are valuable [cambridge.org/core/journals/...](http://cambridge.org/core/journals/)

Simple "sorting"

59.4%

Systematic assessment

40.6%

32 votes · Final results

1:38 PM · Sep 14, 2018 · [Twitter Web Client](#)



Global Health
Emergency Medicine

What do the data tell us?

- Successful completion of triage tool
- Interrater reliability
- Prediction of patient outcome



Over and undertriage

American College of Surgeons:

- Overtriage 25-35%
- Undertriage 5% or less



Over and undertriage

SATS in Ghana, 5.4% undertriaged, 0.3% overtriaged one year after implementation

Rominski S, et al. The implementation of the South African Triage Score (SATS) in an urban teaching hospital, Ghana. *Afr J Emerg Med.* 2014, Jun;4(2):71–5.

<https://www.sciencedirect.com/science/article/pii/S2211419X14000020>



Over and undertriage

- Ayder, three years after SATS implementation
- 42.1% had triage form completed
- Incorrect completion of all triage forms and high rates of over and undertriage

Abdelwahab R, Yang H, Teka HG. A quality improvement study of the emergency centre triage in a tertiary teaching hospital in northern Ethiopia. Afr J Emerg Med. 2017

Dec;7(4):160–6. <https://www.sciencedirect.com/science/article/pii/S2211419X16302099>



Over and undertriage at TASH



Over and undertriage at TASH

- 263 patients
- 115 (43.7%) were incorrectly triaged
- 29 (11%) were over triaged while 86 (32%) were under triaged
- Without a calculated TEWS more likely to overtriage

Desu, Birhanu. Assessing triage implementation and factors affecting it among patients visited Tikur Anbessa Specialized Hospital Adult Emergency Department, Addis Ababa, Ethiopia. Resident thesis. June 2019.

<http://etd.aau.edu.et/bitstream/handle/123456789/21234/Birhanu%20Desu.pdf?sequence=1&isAllowed=y>

Interrater reliability

Kappa 0.50-0.61 interrater agreement on SATS

Dalwai, Mohammed, et al. "Inter-rater and intrarater reliability of the South African Triage Scale in low-resource settings of Haiti and Afghanistan." *Emergency Medicine Journal* 35.6 (2018): 379-383.

https://emj.bmj.com/content/35/6/379?rss=1&hootPostID=5e9e6ea67e18ff7d929a4a70761ccf2b&itm_content=consumer&itm_medium=cpc&itm_source=rendmd&itm_term=0-A&itm_campaign=emj



Training and triage

Increased triage skill level associated with knowledge about triage, education level, and training experience.

Kerie, Sitotaw, Ayele Tilahun, and Alemnesh Mandesh. "Triage skill and associated factors among emergency nurses in Addis Ababa, Ethiopia 2017: a cross-sectional study." *BMC research notes* 11.1 (2018): 658.
<https://bmcresearchnotes.biomedcentral.com/articles/10.1186/s13104-018-3769-8>



Prediction of patient outcome

SATS had a sensitivity of 92.2% and specificity of 37.7% for predicting admission, death, or discharge

Wangara, Ali A., et al. "Implementation and performance of the south african triage scale at kenyatta national hospital in nairobi, kenya." *International Journal of Emergency Medicine*, 12.1 (2019): 5.

<https://link.springer.com/article/10.1186/s12245-019-0221-3>



Prediction of patient outcome

- Predicted an increase in the likelihood of mortality and hospitalisation across incremental acuity levels
- ED outcomes for 'green' and 'red' patients matched the predicted ED outcomes in 84%–99% of cases

Dalwai, Mohammed, et al. "Is the South African Triage Scale valid for use in Afghanistan, Haiti and Sierra Leone?." *BMJ global health* 2.2 (2017): e000160.<https://gh.bmj.com/content/bmjgh/2/2/e000160.full.pdf>



ED crowding and wait times

- Waiting times were significantly reduced in all but the lowest priority category
- Patients triaged “red” (highest priority) demonstrated a mean reduction in waiting time from 216 min to 38 min

Bruijns, S. R., L. A. Wallis, and V. C. Burch. "Effect of introduction of nurse triage on waiting times in a South African emergency department." *Emergency Medicine Journal* 25.7 (2008): 395-397.



ED crowding and wait times

Conflicting evidence about whether triage systems that only prioritize patients, without providing any treatment, improve overall patient flow

Harding, Katherine E., Nicholas F. Taylor, and Sandra G. Leggat. "Do triage systems in healthcare improve patient flow? A systematic review of the literature." *Australian Health Review* 35.3 (2011): 371-383. <https://www.ncbi.nlm.nih.gov/books/NBK82718/>



Improving triage effectiveness

- Consistent medical record-keeping
- Clinically experienced triers
- Training program and skill upkeep



Future of triage

- increased interventions at triage
- e-triage
- triage liaison physicians
- advances in triage of special populations
- team triage
- triage simplification



Questions or comments?



Global Health
Emergency Medicine

Summary

- Purpose of triage in the ED
- A process of prioritizing patients based on the severity of their condition.
- Rapidly assess patients with urgent, life-threatening conditions
- Rationing patient treatment efficiently when resources are insufficient for all to be treated immediately.



Thank you!



Global Health
Emergency Medicine

References

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https://www.researchgate.net/profile/Kenneth_Iserson/publication/262637907_Triage_Ethics-Part_1/links/0f3175384caa07fc8a000000.pdf
- Robertson-Steel, Iain. "Evolution of triage systems." *Emergency Medicine Journal* 23.2 (2006): 154-155.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2564046/pdf/154.pdf>
- Abdelwahab, Rehab, Hannah Yang, and Hareya Gebremedhin Teka. "A quality improvement study of the emergency centre triage in a tertiary teaching hospital in northern Ethiopia." *African Journal of Emergency Medicine* 7.4 (2017): 160-166. <https://www.sciencedirect.com/science/article/pii/S2211419X16302099#b0005>
- Rominski, Sarah, et al. "The implementation of the South African Triage Score (SATS) in an urban teaching hospital, Ghana." *African journal of emergency medicine* 4.2 (2014): 71-75.
<https://www.sciencedirect.com/science/article/pii/S2211419X14000020>
- Wallis, L. A., et al. "The cape triage score-a triage system for South Africa." *South African Medical Journal* 96.1 (2006): 53-56.
https://journals.co.za/docserver/fulltext/m_samj/96/1/m_samj_v96_n1_a17.pdf?expires=1591309678&id=id&accname=quest&checksum=1F94B67A7153C05A3BCFBB4FB8BC07F1
- Bullard, Michael J., et al. "Revisions to the Canadian emergency department triage and acuity scale (CTAS) guidelines 2016." *Canadian Journal of Emergency Medicine* 19.S2 (2017): S18-S27.
<https://pdfs.semanticscholar.org/3fb1/ad39efe0ae67b38a540eae44ca73ff50cdbe.pdf>
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- AAU Health Sciences Library Institution Repository of Postgraduate Projects:
<http://etd.aau.edu.et/handle/123456789/218>



Extra reading

Triage in a pandemic,

<https://blogs.bmj.com/bmj/2020/03/09/covid-19-triage-in-a-pandemic-is-even-thornier-than-you-might-think/>

Kahn, Christopher A., et al. "Does START triage work? An outcomes assessment after a disaster." *Annals of emergency medicine* 54.3 (2009): 424-430. <https://escholarship.org/content/qt89p3t51j/qt89p3t51j.pdf>

Systematic review of triage system performance: <https://bmjopen.bmj.com/content/9/5/e026471.full>

SATS training videos and introduction to triage

<https://emssa.org.za/special-interest-groups/the-south-african-triage-scale-sats/>

