







PBL TRIAGE seminar





IT IS A SPECIALITY OF THE PEOPLE, BY THE PEOPLE AND FOR THE PEOPLE

... IS A TIME-DEPENDENT SPECIALITY



Guarantee of justice in health care

ALLOCATION

- MICROALLOCATION
- MACROALLOCATION

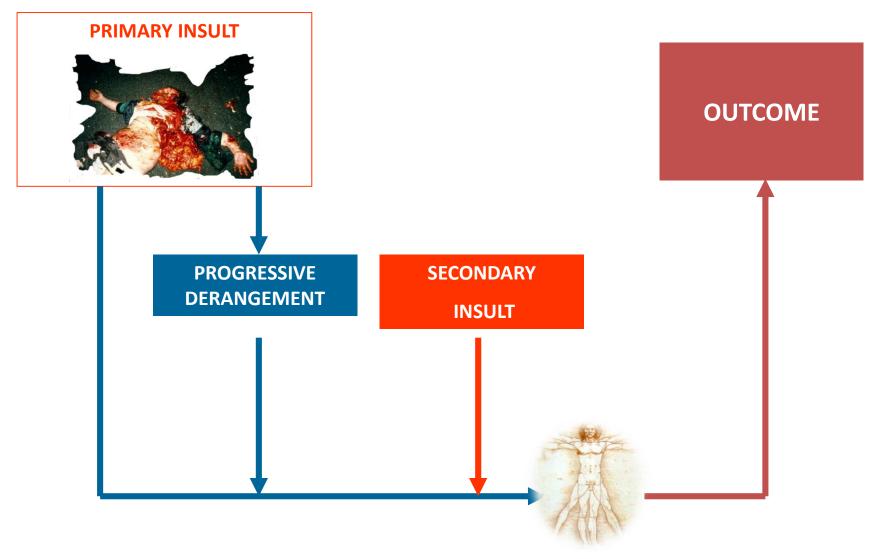
ALLOCATION=SORTING=TRIAGE

IN THEORY: EVERYTHING AT THE LEVEL OF RETHORICS

IN PRACTICE: PLENTY OF "DEALS"





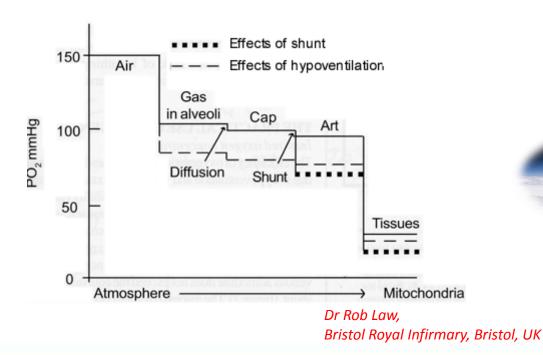


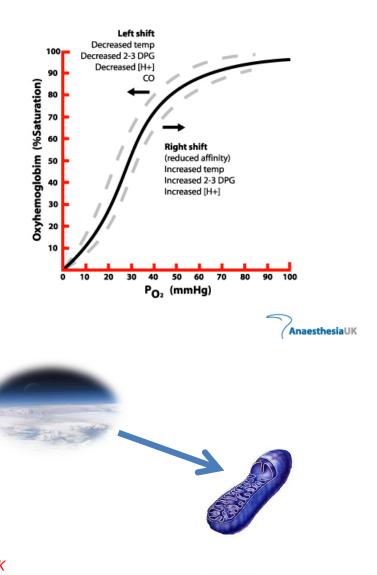
BIOLOGIOCAL RESPONSE



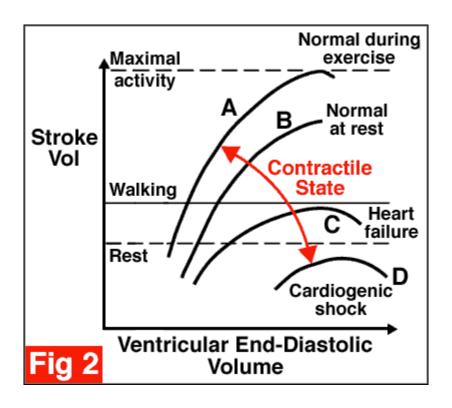
$DO_2 = CAO_2 \times CO$

 $CAO_2 = HGB \times 1.34 \times SAO_2 + (PO_2 \times 0.03)$ CO= PULSE X STROKE VOLUME









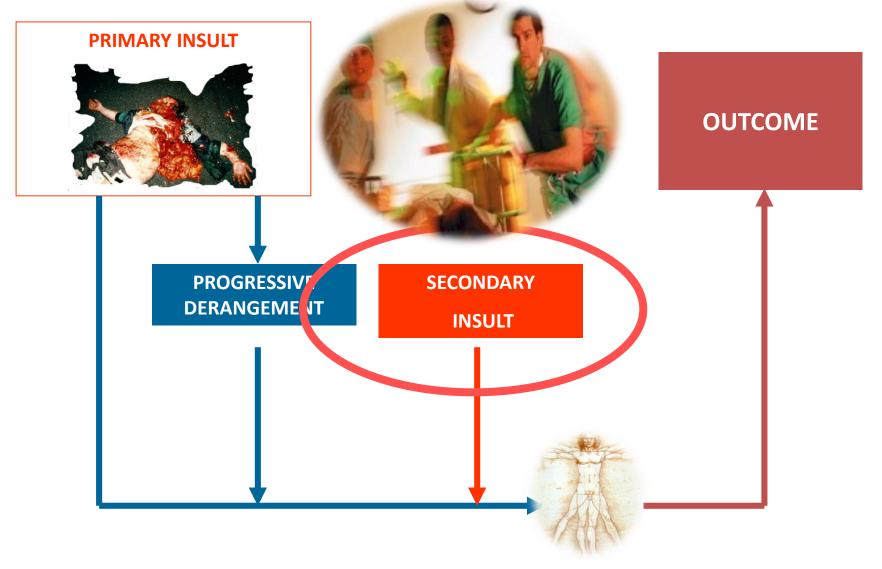
$MAP = CO \times SVR$

HAGEN-POISSEUILLE

$$\mathsf{F} = \frac{\Delta \mathsf{P} \times \pi \times \mathsf{r}^4}{8\eta \times \mathsf{I}}$$

© Guyton and Rudas





BIOLOGIOCAL RESPONSE









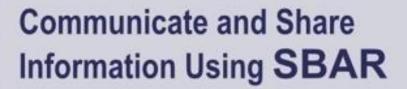




	00
	01
0 hours	02 mins
1	03
2	04



Communication using SBAR



S

Situation

Briefly describe the current situation. Give a clear, succinct overview of pertinent issues.

B

Background

Briefly state the pertinent history. What got us to this point?

A

Assessment

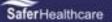
Summarize the facts and give your best assessment. What is going on? Use your best judgement.

R

Recommendation

What actions are you asking for? What do you want to happen next? The SBAR technique provides a standardized framework for communication between members of the healthcare team about a patient's condition. SBAR is an easy-to-remember mechanism useful for framing conversations, especially critical ones, requiring immediate attention and action.

Using the SBAR model allows for an easy and focused way to set expectations for what will be communicated between members of the team, which is essential for developing effective teamwork and fostering a culture of patient safety.







- Military roots
- Introduced to hospitals in early 1960s
 - Number of cases increasing
 - People with non-urgent conditions come to EDs for treatment
- Initially, a 3-level triage (emergent, urgent, deferrable/non-urgent) was used
- In 1999, CTAS 5-level triage implementation guidelines published as recommended national guidelines



Role of Triage Nurse

- 1. Assessing patients and determining acuity
- 2. Communicating with health professionals
- Determines treatment location
- 4. Initiating treatment protocols/first aid measures
- 5. Monitoring and reassessing
- 6. Participating in patient flow
- 7. Documenting



The Process of Triage

- Patient arrives ('critical look')
- Screened for infectious disease
- Triage assessment conducted
- Presenting Complaint (CEDIS) documented
- Modifiers considered
- Triage Level assigned (CTAS)
- Assigned to waiting/treatment area
- Symptom relief provided or nursing protocols initiated
- Waiting patients reassessed



Patient Arrival

- A variable % of patients arrive by ambulance.
 Their acuity <u>ranges across all triage levels</u>
- More patients arrive by other means of transport (known as "walk-ins"). Their acuity also include all levels





Critical Look

- 'Critical first look' across-the-room begins as soon as the patient arrives in the ED
- Perform a quick check of

A: Airway

B: Breathing

C: Circulation

D: Disability (neurological)

- Should take 3 to 5 seconds
- Take action as indicated





Infection Control Screening

- If positive (eg ILI, FRI), appropriate protective measures (respiratory etiquette, hand washing, isolation) need to be taken
- Use latest information available (from provincial, state, or national guidelines)





Subjective Assessment

The "story" in the patient's own words:

- Their account of why they came to the hospital
- The symptoms they are experiencing
- Pain severity
- The injury history (mechanism of injury)
- Their concerns



Selecting Presenting Complaint (CEDIS)

- Patient driven
 - "What concern brought you to the ED today?"
 - Headache, Cough, SOB, etc.
 - "Which of the complaints bothers you most?"
 - "My fever and shaking chills!"
- Nurse driven
 - "Patient complains of leg swelling & moderate thigh pain, but nurse note moderate SOB."
 - Could choose SOB or Lower extremity pain





Objective Assessment

Draws on observable indicators (signs):

- Wounds, rashes, bleeding, cough, etc.
- Vital signs
- Reaction to pain
- Other indicators







Triage Decision

Based on the critical look, chief complaint, subjective and objective assessments, application of modifiers as required, then decide:

What is the patient's priority?



IS THE PATIENT ALIVE? YES NO **CAN THIS PATIENT WAIT?** YES NO **HOW MANY HCP IS NEEDED?**

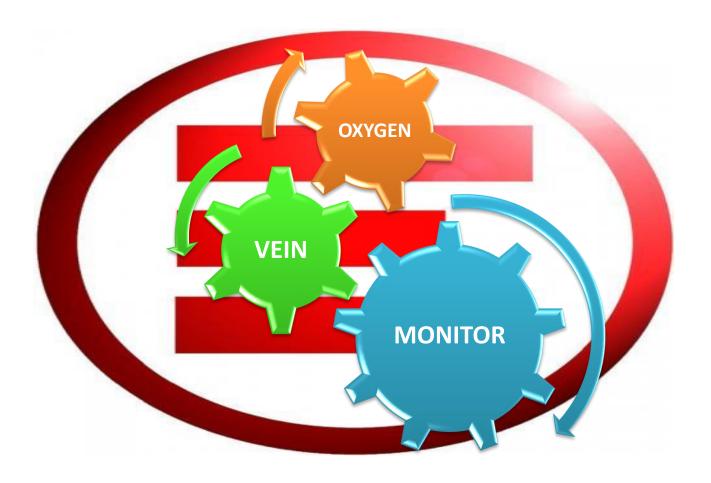






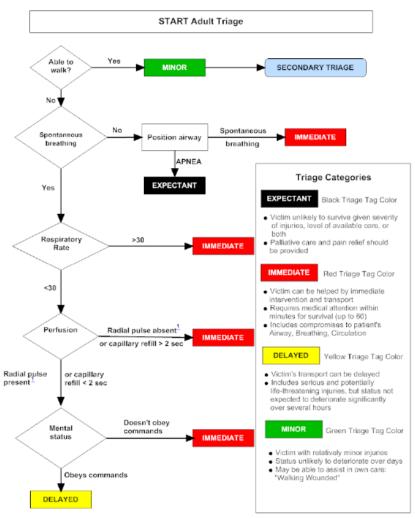












The Canadian Triage Acuity Scale (CTAS)







RESUSCITATION

INITIAL TRIAGE ASSESSMENT WITHIN 10 MINUTES* TON USUAL PRESENTATION SENTINEL DIAGNOSIS Code / Arrest Traumatic Shock **Major Trauma** Pneumothorax - Traumatic / Tension **Shock States** Facial Burns with Airway Compromise **Near Death Asthma** Severe Burns > 30% TBS Overdose with Hypotension / Unconscious Severe Respiratory Distress Altered Mental State (unconscious, delerious) AAA Seizures AMI with Complications / CHF / Low BP Status Asthmaticus Head Injury - Major / Unconscious Status Epilepticus



EMERGENT

USUAL PRESENTATION	SENTINEL DIAGNOSIS
Head Injury (Risk Features ± Altered Mental State) Severe Trauma Altered Mental State (lethargic, drowsy, agitated) Chemical Exposure - Eyes Allergic Reaction (Severe) Chest Pain • Visceral, Non-Traumatic • ± Associated Symptoms Overdose (conscious), Drug Withdrawal ABD Pain (Age >50) with Visceral Symptoms Back Pain (Non Trauma, Not MSK) GI Bleed with Abnormal Vital Signs CVA with Major Deficit Asthma Severe (PEFR <40%) Moderate / Severe Dyspnea / Diffuculty Breathing Vaginal Bleeding • Acute, Pain scale >5 • ± Abnormal Vital Signs Vomiting and/or diarrhea (with suspicion of dehydration) Signs of serious infection (purpuric rash, toxic) Chemotherapy or immunocompromised Fever (age ≤ 3 months) Temp ≥ 38.0 (rectal) Acute Psychotic Episode / Extreme Agitation Diabetes: Hypoglycemia, Hyperglycemia Headache (Pain Scale 8 - 10/10) Pain Scale 8-10 (CVA, Back, Eye)	Head Injury Trauma, Multiple Sites, Multiple Rib Fracture, Neck Injury / Spinal Cord Alkaline / Caustic Occular Burns Anaphylaxis AMI, Unstable Angina, CHF, Chest Pain NOS, Gastroesophageal Reflux Unspecified Drug / Medicinal Overdose, "d.t.'s" AAA, Appendicitis, Cholecystitis Gastrointestinal Bleed, Hypotension CVA Severe Asthma COPD, Croup Spontaneous Abortion Ectopic Pregnancy / Rupture Epiglottitis, Meningitis, Sepsis Acute Psychotic Episode / Agitation Hypoglycemia, Diabetic Ketoacidosis, Hyperglycemia Migraine Renal Colic, LBP / Strain (Disc), Keratitis, Iritis





OLD CARS

- O- ONSET
- L- LOCATION
- **D-** DURATION



A-ALLEVIATING/AGGRAVATING FACTORS ASSOCIATED SYMPTOMS

- **R** RADIATION
- **S-** SEVERITY









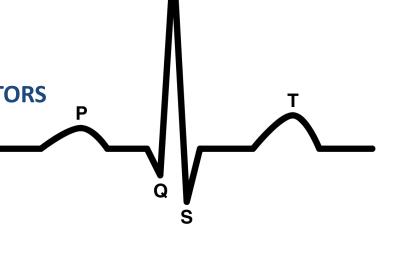


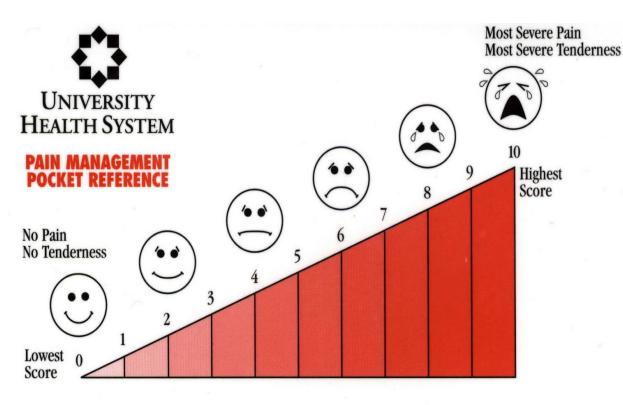
Q QUALITY

RADIATION

Symptoms Associated with pain

T TIMING





For patients unable to use visual 1-10 or faces scale, refer to the behavioral scales for child/adults in Pain Management Protocol/Patient Care Service.





The CEDIS Categories

Cardiovascular (CVS)

ENT – Ears (ENT-E)

ENT – Mouth, throat, neck

(ENT-MTN)

ENT – Nose (ENT-N)

Environmental (ENV)

Gastrointestinal (GI)

Genitourinary (GU)

Mental Health (MH)

Neurologic (CNS)

OB – GYN (OB-GYN)

Opthamology (OPTH)

Orthopedic (ORTHO)

Respiratory (RESP)

Skin (SKIN)

Substance Misuse (SUBST)

Trauma (T)

General and Minor (GEN)



The process of triage

- Select appropriate CEDIS complaint
- Apply appropriate 1st order modifiers
- Select relevant complaint-specific 2nd order modifiers



First Order Modifiers

1st Step

Respiratory Distress......Airway

.....**B**reathing

Hemodynamic Status.....Circulation

Level of Consciousness........Disability

Temperature

2nd Step

Pain Score

Bleeding Disorder

Mechanism of Injury



Assessing Acuity Process

Critical Look - rapid visual assessment Presenting Complaint - Hx / Infection Control **Vitals** – physiologic parameter assessment (1st order modifiers: 1st step) Additional Keys - non physiologic parameters (1st order modifiers: 2nd step) Special Modifiers - complaint-based (2nd order modifiers) CPAS Level – Assign Acuity Level Reassessment



Second order modifiers

Presenting complaint	Revised modifier	CTAS level
Chest pain,	Other significant chest	Ш
noncardiac features	pain (ripping or tearing)*	
Upper extremity injury; lower extremity injury	Obvious deformity†	III
Nausea and/or vomiting; diarrhoea	Severe dehydration‡	I
General weakness	Moderate dehydration§	II
	Mild dehydration¶	III
	Potential for dehydration**	IV
Pregnancy issues > 20 weeks††	Presenting fetal parts, prolapsed cord	1
	Vaginal bleeding, third trimester	1
	Active labour (contractions ≤ 2 min)	П
	No fetal movement or no fetal heart tones	П
	Headache with or without edema, abdominal pain or hypertension	II
	Postdelivery	Ш
	Active labour (contractions > 2 min)	Ш
	Possible leaking amniotic fluid	III

CEDIS presenting complaint	Description	CTA leve
Depression, suicidal or deliberate self harm	Attempted suicide or clear suicide plan	II
	Active suicidal intent	- II
	Uncertain flight or safety risk	- II
	Suicidal ideation, no plan	Ш
	Depressed, no suicidal ideation	IV
Anxiety or situational crisis	Severe anxiety or agitation	П
	Uncertain flight or safety risk	П
	Moderate anxiety or agitation	Ш
	Mild anxiety or agitation	IV
Hallucinations or delusions	Acute psychosis	П
	Severe anxiety or agitation	П
	Uncertain flight or safety risk	П
	Moderate anxiety or agitation, or with paranoia	Ш
	Mild agitation, stable	I۷
	Mild anxiety or agitation, chronic hallucinations	V
Insomnia	Acute	IV
	Chronic	V
Violent or homicidal	Imminent harm to self or others, or specific plans	I
behaviour	Uncertain flight or safety risk	Ш
	Violent or homicidal ideation, no plan	Ш
Social problem	Abuse physical, mental, high emotional stress	Ш
	Unable to cope	IV
Bizarre behaviour	Chronic, nonurgent condition	V
	Uncontrolled	- 1
	Uncertain flight or safety risk	Ш
	Controlled	Ш
	Harmless behaviour	IV
	Chronic, nonurgent condition	V







18 yr old girl with known asthma

- Having a temp and a bit of cough in the last few days
- This morning she deteriorates
- Her father calls the ambulance
- You are the ambulance control ©



54 year old man with a fall

- Known alcoholic
- Comes out of the pub
- Found collapsed on the pavement
- No fits, but unconscious
- As a pedestrian you walk past
- You call the ambulance



