July 15th, 2020

COVID Triage Project

FUNCTIONALITY DESIGN

OTTAWA'S DEPARTMENT OF MEDICINE



Département



Clinical Triage Protocol from Ontario Health

- **1.** Please select the triage level according to their TRISS score:
- Level 1 Triage Scenario (Aiming to exclude people with >80% predicted mortality)
- Level 2 Triage Scenario (Aiming to exclude people with >50% predicted mortality)
- Level 3 Triage Scenario (Aiming to exclude people with >30% predicted mortality)

Here, user will be able to select one of the 3 triage levels corresponding to the centre's status. Once the user chooses one of the options, subsequent exclusion criteria questions will reflect the triage level. In the future this question may be automated (or pre-populated) by referencing to the resource utilization database proposed by Drs Dowar and Tanuseputro.

NOTE: Initially, user will only be able to see the first question. However, once the user selects the appropriate triage scenario, all criteria related questions will be displayed at the same time.

Note: Circles indicate radio-buttons (only one option from the group must be selected). Squares indicate checkboxes (any option may be selected).

Patient Information

Patient Name:					
Patient ID:					
Date of Birth:					
Step 1: Inclusion Criteria					
2. Which of the following inclusion criteria does the patient meet?					
 Requirement for invasive ventilator support ? Hypotension ? Both None of the above 					
When the user hovers over the "?" symbol, detailed criteria description will be presented.					

Step 2: Exclusion Criteria

A. Is this patient's predicted mortality XX% or more according to TRISS score?

Yes

No

Unknown

This will show up if and only if the user selects either YES or Unknown,

What is the patient's mortality rate?

IF USER SELECTS NO,

Move onto to the next question in the form

TRISS Calculator will be displayed here.

NOTE: XX is the triage level associated predicted mortality (i.e. 80, 50 or 30%).

B. Does this patient have severe burns? Yes No This will show up if and only if the user selects YES, Which of the following applies to this patient? Age (60+) Total body surface area affected (40+) Inhalation injury IF USER SELECTS NO, Move onto to the next question in the form

C. Has this patient ever experienced cardiac arrest?

Yes
No

This will show up if and only if the user selects YES,
Which of the following applies to this patient?
Unwitnessed cardiac arrest
Witnessed cardiac arrest with non-shockable rhythm
Recurrent cardiac arrest
IF USER SELECTS NO,
Move onto to the next question in the form

D.	Does this patient have severe baseline cognitive impairment (unable to perform activities of daily living	ng
	independently due to cognitive impairment) due to a progressive illness?	

Yes

No

NOTE: Question D will be same for triage level 2 but for triage level 3, the question will be as follows:

Does this patient have severe and moderate baseline cognitive impairment (significant impairment in high-order ADLs (e.g. finances, medications, transportation)) due to a progressive illness?

Yes

No

E.	Does this patient have advanced irreversible neurodegenerative disease (e.g. Parkinson Disease, Amyotrophic
	Lateral Sclerosis)?

Yes

No

NOTE: Question E will be same for triage level 2 but for triage level 3, the question will be as follows:

Does this patient have advanced and moderate irreversible neurodegenerative neuromuscular disease (e.g. Parkinson Disease, Amyotrophic Lateral Sclerosis)?

Yes

No No

- F. Does this patient have metastatic malignant disease?
- Yes
- No

NOTE: Question F will be same for other two triage scenarios but just with their respective criteria.

PS: Below is an example of Level 1 Triage Scenario.

This will show up if and only if the user selects YES,

Which of the following applies to this patient?

- ECOG Class >= 2
- Disease progressing or stable on treatment
- Active treatment plan with >80% mortality risk at 1 year
- Unproven (experimental) treatment plan
- Treatment plan that would only be started if the patient recovers from critical illness

IF USER SELECTS NO,

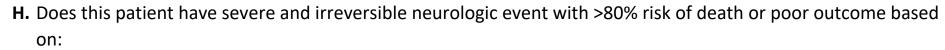
Move onto to the next question in the form

G. Is the patient advanced and irreversible immunocompromised?



No

NOTE: Question G will be same for all triage scenarios.



- For Intracerebral Hemorrhage, a modified ICH score of 4-7 [?]
- For Subarachnoid hemorrhage, a WFNS grade 5 (GCS 3-6) [?]
- For Traumatic Brain Injury, the IMPACT score ?
- Acute ischemic stroke alone would not be excluded at this level
- Yes
- No

Glagow Coma Score Calculator

IMPACT Score
Calculator

NIHSS Score Calculator When the user hovers over the "?" symbol, detailed criteria description will be presented.

NOTE: Question H will be same for other two triage scenarios but just with different mortality rate and thus with different numbers. Other criteria such as NIHSS score are not shown.

PS: Above is an example of Level 1 Triage Scenario.



- Heart ?
- Lung ?
- Liver ?

NOTE: Note that patients who meet these criteria maybe eligible for ICU admission if they are currently on an organ donation waiting list and would be given highest priority if admitted to ICU (e.g. status 4/4F for liver transplantation). This does not include people who have been referred to a transplant service but not yet listed for a transplantation. This also would not apply if organ donation processes are halted due to triage conditions precluding organ procurement.

When the user hovers over the "?" symbol, detailed criteria description will be presented for each of the above options.

NOTE: Question I will be same for triage level 2 (with different numbers) but for triage level 3, the question will be as follows:

Does this patient have end-stage organ failure (any diagnosis) or previous organ transplant with evidence of chronic rejection or chronic organ dysfunction in the transplanted organ?

- Yes
- No

- **J.** Does this patient have a Clinical Frailty Score of >=7 due to a progressive illness or condition?
- Yes
- No

NOTE: Question J will be same for other two triage scenarios but just with different Clinical Frailty Score.

PS: Above is an example of Level 1 Triage Scenario.

Yes
No

NOTE: Question K will be same for triage level 2 but for triage level 3, the question will be as follows:

Does this patient have elective or emergency palliative surgery?

Yes
No

- **L.** Is this patient receiving mechanical ventilation for >=14 days with a ProVent score of 4-5?
- Yes
- No

ProVent Score Calculator

NOTE: Question L will be same for other two triage scenarios but just with different ProVent Score.

PS: Above is an example of Level 1 Triage Scenario.

M	. By clinical judgement, does this patient has >80% chance of mortality due to their critical illness,	or in the	e near
	future regardless of their critical illness?		

Yes

No

NOTE: Question M will be same for other two triage scenarios but just with their respective mortality rate.

PS: Above is an example of Level 1 Triage Scenario.

SUBMIT

NOTE: Once submitted, all the data will be saved in the database and the appropriate message will be displayed.