





Interdepartmental Simulation: Code Crimson and Massive Haemorrhage Pathway (MHP)

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Background

- ☐ Christchurch ED -Interdepartmental sim programme since 2017
- ☐ 6-7 interdepartmental in-situ sims/year



Ambulance

ED medical, nursing, radiology,

Social work

Anaesthetics, ICU,

Surgery and Trauma

Paediatrics

O + G, Maternity, Neonatal

Blood Bank

Operators + Orderlies



Aim:

To test systems, processes and environment and make improvements

Sim process

- ☐ Pre -sim meeting with sim team
- ☐Sim pre-brief emailed to participants ED staff briefed also on day
- ☐ Scenario high fidelity with Hartwell Simulator use all our normal monitors use equipment, consumables, drugs
- ☐ Debrief facilitated
- ☐ Evaluation + Report









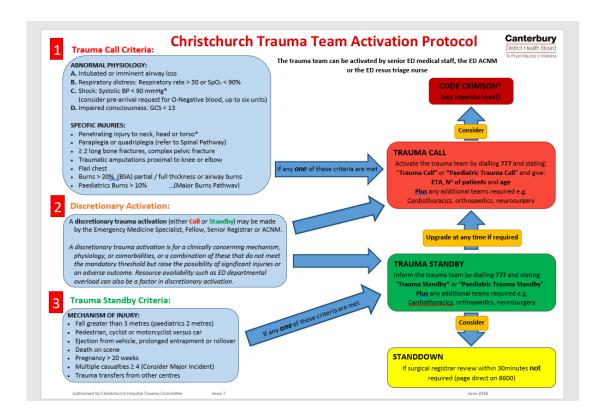
<u>Hartwell Simulation -</u> <u>YouTube</u>

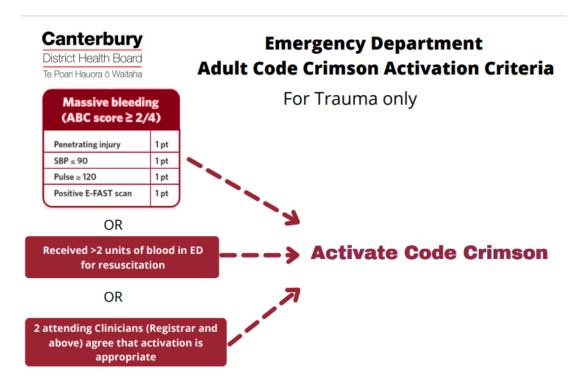
Background





March 2022 Code Crimson launched Waipapa ED Christchurch





Code Crimson Sim Learning outcomes

- 1. Test the system and process for CODE Crimson.
- 2. Demonstrate a structured approach to managing the trauma patient.
- 3. Identify life threatening injuries and treat promptly
- 4. Initiate and follow the process for MTP (now MHP)
- 5. Demonstrate clear communication and team work.





Scenario: Code Crimson

Bradley Jackson 35 yrs

DOB 03.04.87 NHI BJJ3535

Scenario Description:

MOI: cyclist v car

Injuries – Rigid abdomen, # Femur

Vitals BP 70/50 HR 130 RR 30 Sats 95

on 02 GCS 13 3,4,6

TX –O2 No IV access

ETA given as 2 minutes radio call

0845

Scenario Progression Part 1

08.45 Radio call

08.48 Code Crimson call to operator

08.55 Patient arrives

Emergency O neg -ED Blood Fridge x 3 units

09.03 MTP (now MHP) activated

09.17 MTP Box 1 arrives Decision to go to OT

09.20 Scenario ended at OT lift

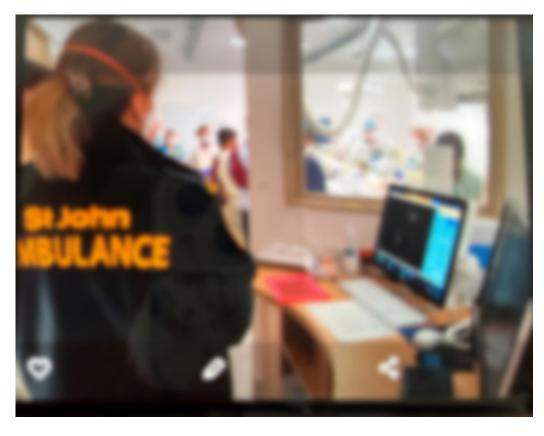
09.25 MTP Box 2 left Blood Bank

09.30 MTP Box 2 arrives in OT

Scenario part 2 commenced at ED OT Lift next day – same time



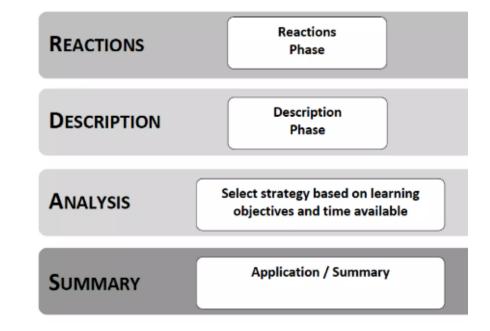








- Different room
- Facilitated Lead debriefer
 - Co-debriefers
- Structured approach
- Advocacy + inquiry





Calls and Communication







Preparation











Equipment



anaesthetic IV lines not in trolley
Similarity in packaging –not easy to identify
Reported as possible hospital wide issue /requires clear labelling





Equipment



Level 1 Rapid Infuser vs Belmont

ED use Level 1
No battery for transfer so need to stop
and use pressure bags
OT staff not familiar with Level 1 now
OT use Belmont

review and discussion re standardisation of equipment



impacted decision making in regards to keep Emergency Blood in ED

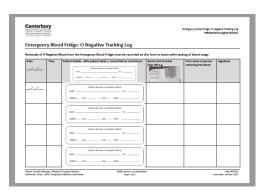
Emergency Blood Fridge



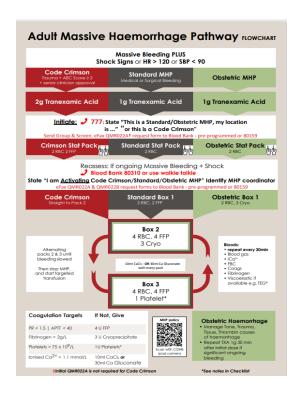
















1st Code Crimson sim –MTP

2nd + 3rd Code Crimson sim:

- able to test the new MHP pathway

Understand language and fine tune processes

READY TO RESPOND KIA MATAARA CENNZ CONFERENCE 2023 19-20 October 2023 | Christchurch

OT Resources

Resources differ out of normal hours
Same staff attend ED then need to set
up in OT



Discussion part 2 of scenario (OT staff)

Follow up and reporting

Discovery report -detailed







Register sim event-safety first – for potential high risk





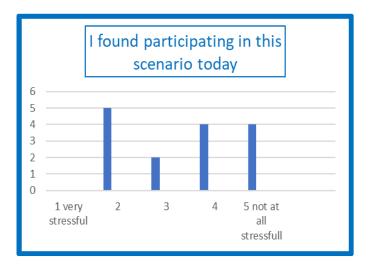
Send to sim leads involved Each department liaise with own HOD

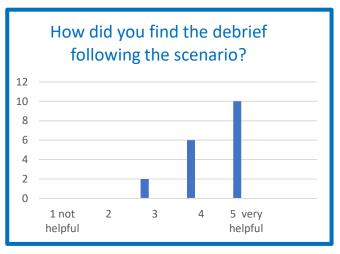
How valuable has this session been for you? 15 10 5 1 not 2 3 4 5 very valuable





Evaluations









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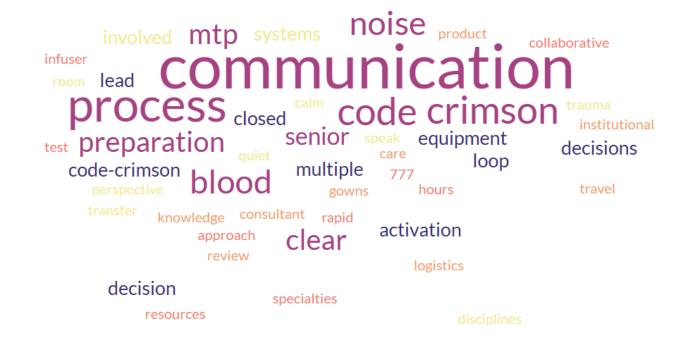
* Required					
1. How valuable do	you feel this se	ssion has been	for you? *		
	2	- 1	4	5	
Not valuable at all				Extremely valuable	
2. The resuscitation	and manageme	ent skills learnt	today will impr	ove my clinical prac	tion.*
	2	1	4	5	
Not at all				Very much	
3. I found participation	ng in this scena	rio today: *			
1	2	3	4	5	
Very stressful 4. Do you feel that y	ou had the kno	wledge and ski	ls to manage th	Not at all stressful is type of patient?	
1	2	1	4	5	
Notatali				Yes, I had all the knowledges/kills	
				tromospesions	
5. How did you find	the debrief sess	ion following t	he scenario? *		
1	2	1	4	5	
Nothelpful				Very helpful	
What are the 3 most	important skil	lt/messages y	ou will take ho	me form this train	ing session?
Enter your anower					

We use QR code - evaluations automatically collated





What are the 3 most important skills/messages you will take home form this training?



Conclusion/take home messages



Interdepartmental simulations enable us to test our systems, processes and environment.

They enable us to work collaboratively with the specialties who are part of the wider team caring for trauma patients.

This allows us to improve safety and quality of care.







Acknowledgements

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Susan Mercer, CNS Transfusion Medicine

Paul McFarlin, Radiology

Tylie Cridge, Radiology

Participants- Ambulance, ED, Radiology

Anaesthetics/ICU

Trauma + Surgery

Blood Bank /Orderlies

Operators

ED Medical Director and Nurse Manager

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