

MAJOR TRAUMA RECORD

MALLEY, TIMMY - PENETRATING / RTC

2nd February 2022

Mechanism **Penetrating / RTC**

Time **17:47**

Fall from height 10 metres
c/o abdo / chest pain

Time ED **18:16 +30 mins**

Patient **Male, 30**

Time Discharge **19:08**

Weight **Unknown**

Time Major Haemorrhage Activated **18:11**

Injuries **5**

Transport **Ambulance, Road**

Interventions **9**

Hospital **QEUH - Test/train/sim**

Outcome **Discharged to ICU**

Trauma Leader **Consultant**

Allergies **Unknown**

Scribe **Doctor in Training**

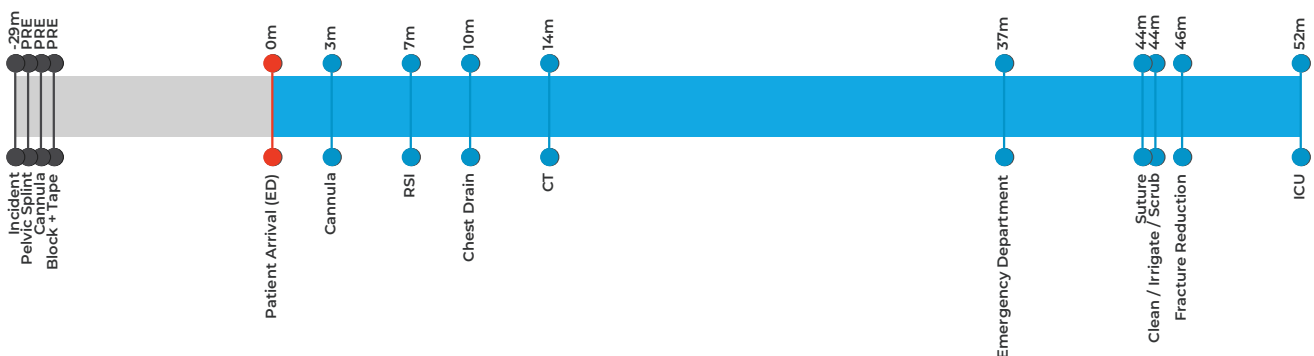
Medications **Unknown**

Significant Comorbidities **Unknown**

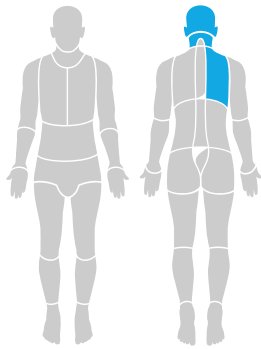
Last Ate **Unknown Hour(s)**

Last Drank **Unknown Hour(s)**

Events Leading Fall from height second floor witnessed



PRE-HOSPITAL



Time of Injury

17:47 2nd February 2022

Route

Ambulance, Road

Injuries

Right Upper Back / Head / Neck (Posterior)

Cardiac Arrest

No

Vitals

	Standby	Handover
Respiration Rate	45 BPM	35 BPM
SPO2	98%	98%
O2	15 LTR	15 LTR
Heart Rate	120 BPM	130 BPM
Blood Pressure	100/60 mmHg	95/55 mmHg
GCS / ACVPU	14	14
Temperature		36.0°C
Blood Glucose		

Interventions Ordered by time (oldest to newest)

PELVIC SPLINT

Paramedic

Start | On

Performed or End | Off

PRE

CANNULA

Paramedic | 18 G

PRE

BLOCK + TAPE

Paramedic

PRE

Prescriptions / Fluids Ordered by time (oldest to newest)

Normal Saline 0.9%

Infusion | Intravenous (IV) | 250 mL | Prescriber: Paramedic | Administered By: Paramedic

Start | On

Administered or End | Off

PRE

PRE

Infusion Duration

10 minutes

Tranexamic Acid

Bolus | Intravenous (IV) | 1 g | Prescriber: Paramedic | Administered By: Paramedic

PRE

PRIMARY SURVEY

	Exams and Findings / Pre Hospital Interventions	ED Activity
<C>	<p>Exam Cat. Haemorrhage: No</p>	
A	<p>Exam Airway: Compromised</p> <p>Vitals Oxygen Saturation: 94% Oxygen Level: 15 LTR Respiration Rate: 29 BPM Heart Rate: 120 BPM Blood Pressure: 80/60 mmHg</p>	<p>Interventions RSI</p> <p>Drugs / Fluids Ketamine Rocuronium</p>
B	<p>Exam Air Entry (Right): Yes Air Entry (Left): Reduced Findings (Right): None Findings (Left): Crrepitus / S.Emphesema</p> <p>Vitals Oxygen Saturation: 94% Oxygen Level: 15 LTR Respiration Rate: 29 BPM Heart Rate: 120 BPM Blood Pressure: 80/60 mmHg</p>	<p>Interventions Chest Drain</p>
C	<p>Exam Abdominal Tenderness: Yes Location(s): RUQ / LUQ / RLQ / LLQ</p> <p>Vitals Heart Rate: 120 BPM Blood Pressure: 80/60 mmHg Cap Refill: 3 sec</p>	<p>Interventions Cannula</p> <p>POC Tests Venous Blood Gas Abnormal Ultrasound Abnormal</p> <p>Lab Request Biochemistry U&E, LFTs, Bone Profile, Glucose, Amylase, CRP</p> <p>Haematology FBC, COAG</p>
D	<p>Exam Neuro Status: Normal Pupil (Right): Reactive Length (Right): 3 mm Length (Left): 3 mm</p> <p>Vitals GCS / ACVPU: 14 Mental Status: Agitated</p>	

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E	<p>Exam</p> <p>Gross Areas of Injury: Head / Neck (Posterior) / Left Upper Back / Abdomen RUQ / Abdomen LUQ / Abdomen LLQ / Abdomen RLQ / Left Thorax (Lower)</p> <p>Vitals</p> <p>Blood Sugar: 5.0 mmol/L</p>	
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CRITICAL INTERVENTIONS



Ordered by time (oldest to newest)

ED ●
Pre Hospital ●

18:23 RSI

Performed By	Tube Size	Device	Blade Size	Adjunct	Outcome
1 Doctor in Training	8.5 mm	Video	4	Stylet	Fail
2 Consultant	8 mm	Video	4	Stylet	Success

Outcome
Grade of View 2
CM At Teeth 22 cm
Confirmation ETCO2 / Stethoscope

Complications
Oesophageal Intubation No
Desaturation < 94% Yes
Dental Trauma No
Aspiration During Procedure No
Endobronchial Intubation No
Critical Desaturation < 90% No
Hypotension (SBP < 90 mmgh) No



18:26 Chest Drain

Performed By	Location	US Guided	Size	Outcome	Finding	CM At Skin
1 Doctor in Training	Left	No	24 FR	Success	Blood / Air	16

Drained Volumes
18:26 - 500ml



Confirmation
Confirmation Bubbling / Swinging

Aseptic Technique ✓

19:02 Fracture Reduction

Performed By	Bone	Outcome
1 Doctor in Training		Success

Outcome
Neurology Unknown
Vascular Compromise No Change

INTERVENTIONS Ordered by time (oldest to newest)ED 
Pre Hospital 

Start | On

Performed
or End | Off**PELVIC SPLINT**

Paramedic

PRE

**CANNULA**

Paramedic | 18 G

PRE

**BLOCK + TAPE**

Paramedic

PRE

**RSI**

Consultant | 8 mm | 2 | 22 cm | ETCO2 / Stethoscope | 2 Attempts | Success

18:23

+7 mins

CHEST DRAIN (Left)Aseptic Technique  | Doctor in Training | 24 FR | Blood / Air | 500mL | Bubbling / Swinging | 1 Attempt | Success

18:26

+10 mins

CLEAN / IRRIGATE / SCRUB (Wound - Left Thorax)

18:59

+43 mins

SUTURE (Wound - Left Thorax)Doctor in Training
Non-Absorbable | 4/0 | 6 Sutures

19:00

+44 mins

FRACTURE REDUCTION (Fracture - Upper Limb > Radius > Right > Distal Radius)

Doctor in Training | Unknown | No Change | 1 Attempt | Success

19:02

+46 mins

CANNULA (Right Elbow)

Doctor in Training | 16 G

18:19

+3 mins

PRESCRIPTIONS / FLUIDS Ordered by time (oldest to newest)

ED ●
Pre Hospital ●

Normal Saline 0.9%

Infusion | Intravenous (IV) | 250 mL | Prescriber: Paramedic | Administered By: Paramedic

Infusion Duration

10 minutes

Start **PRE** - Administered or End **PRE**

Tranexamic Acid

Bolus | Intravenous (IV) | 1 g | Prescriber: Paramedic | Administered By: Paramedic

PRE

Ketamine

Bolus | Intravenous (IV) | 150 mg | Prescriber: Consultant | Administered By: Nurse

18:24
+8 mins

Rocuronium

Bolus | Intravenous (IV) | 100 mg | Prescriber: Consultant | Administered By: Doctor in Training

18:25
+9 mins

Propofol 2%

Infusion | Intravenous (IV) | 1000 mg | Prescriber: Consultant | Administered By: Nurse

18:25 - **19:12**
+9 mins - +56 mins

ML Per Hour

8 ml/hr **18:40** - **19:12**

Total ML Infused: 4.27 ml

Calcium Chloride

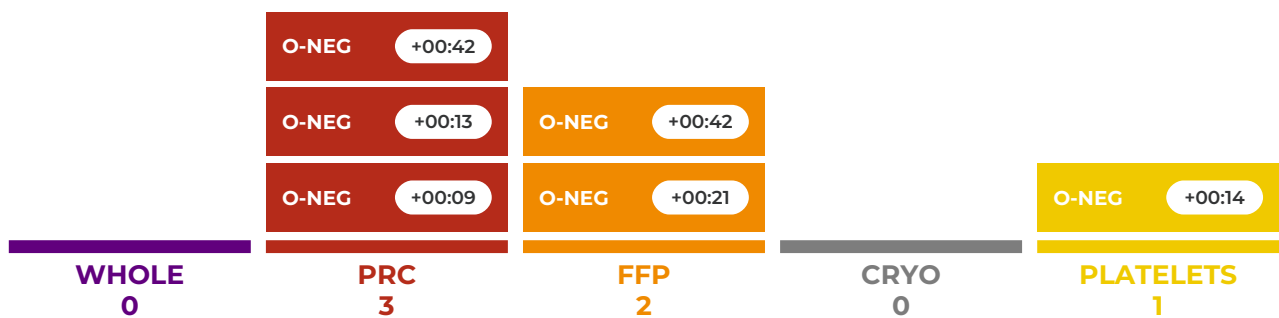
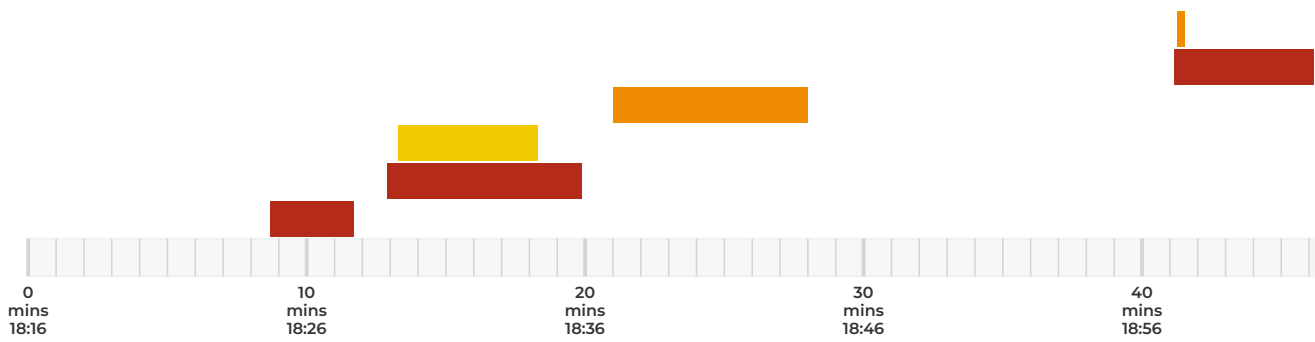
Bolus | Intravenous (IV) | 10 mL | Prescriber: Consultant | Administered By: Consultant

18:31
+15 mins

VENTILATOR SETTINGS

Time	Mode	Tidal Volume (mL)	Frequency	Volume Per Minute (mL/min)	Peep (cm/H2O)	FiO2	ETCO2 (mmHg)	SpO2 (%)
18:26	CMV	500	16	8000	5	0.80	4.5	98
19:09	CMV	500	18	9000	5	0.60	5.0	99

BLOOD PRODUCTS



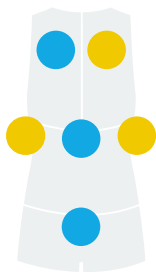
ED ●
Pre Hospital ●

Blood Product Details Ordered by time (oldest to newest)

	Start	End
● PRC (Unit 1) 3 mins O-Neg	18:25 +9 mins	18:28 +12 mins
● PRC (Unit 2) 7 mins O-Neg	18:29 +13 mins	18:36 +20 mins
● PLATELETS (Unit 1) 5 mins O-Neg	18:30 +14 mins	18:35 +19 mins
● FFP (Unit 1) 7 mins O-Neg	18:37 +21 mins	18:44 +28 mins
● PRC (Unit 3) 5 mins O-Neg	18:58 +42 mins	19:03 +47 mins
● FFP (Unit 2) STAT O-Neg	18:58 +42 mins	18:58 +42 mins

IMAGING Ordered by time (oldest to newest)

ED ●
Pre Hospital ●



Ultrasound

Ordered
18:21

Location	Result	Findings
Right Lung	Normal	None
Left Lung	Abnormal	Pneumothorax / Fluid
RUQ	Abnormal	Unknown
Subcostal	Normal	None
LUQ	Abnormal	Fluid
Pelvis	Normal	None

Notes

+ve blood interface kidney spleen /liver mod volume



CT (Triple Phase (Arterial))

Ordered
18:22

Performed
18:38

Verbally Reported
18:50

Written Reported
19:10

Locations

Head / Neck / Thorax / Abdomen / Pelvis / Upper Leg

Notes

Nil head
C2 fracture
Left sided haemopneumothorax multiple rib fractures left side
G2 liver laceration moderate free fluid

POINT OF CARE TESTS Ordered by time (oldest to newest)

ED ●
Pre Hospital ●

VENOUS BLOOD GAS

H+: 55.0 nmol/L | Hb | Lactate: 6.0 mmol/L | PCO2 | PO2 | Glucose | HCO3 | Base Excess | K+ | Calcium

Result: Abnormal
Time: 18:21
+5 mins

ULTRASOUND

Doctor in Training

Result: Abnormal
Time: 18:21
+5 mins

Notes

+ve blood interface kidney spleen /liver mod volume

A5 ROTEM

Fibtem: 5 mm | Extem: 15 mm

Low Platelets
Low Fibrinogen
Time: 18:28
+12 mins

LAB REQUESTS AND RESULTS Ordered by time (oldest to newest)

ED ●
Pre Hospital ●

Lab Request 1

Requested	Biochemistry	Haematology
18:22	--:--	--:--
Biochemistry	U&E / LFTs / Bone Profile / Glucose / Amylase / CRP	
Haematology	FBC / COAG	
Group & Save	No	
Cross Match	Yes (PRC: 6, FFP: 2, Platelets: 1, Cryo: 0)	

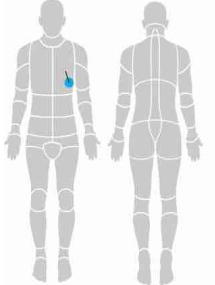
Results

PHYSIOLOGY

NEWS Key	CONTEXT	STAND BY	HAND OVER	PRIMA RY	PRIMA RY	RSI	VENTIL ATOR	/	VENTIL ATOR	
		TIME	PRE	PRE	18:18	18:20	18:23	18:26	18:54	19:09
A+B Respirations breaths/min	≥ 25	45	35	29						
	21-24							18	18	
	18-20						16			
	15-17									
	12-14									
	9-11									
≤ 8										
A+B SpO ₂ scale 1 Oxygen saturation %	≥ 96	98	98	94			98	99	99	
	94-95									
	92-93									
	≤ 91									
Air or oxygen?	A = Air									
	O2 L/min	15	15	15			15	10	10	
	Device									
C Blood Pressure mmHg <small>Scan uses systolic BP only</small>	≥ 220									
	201-219									
	181-200									
	161-180									
	141-160									
	121-140									
	111-120									
	101-110	100	95							
	91-100								90	
	81-90						80			
	71-80									
61-70										
51-60	60	55	55			60		60		
≤ 50										
C Pulse beats/min	≥ 131		130	130				125		
	121-130	120					120			
	111-120									
	101-110									
	91-100									
	81-90									
	71-80									
	61-70									
	51-60									
	41-50									
	31-40									
≤ 30										
D Consciousness <small>Score for NEW onset of confusion (no score if chronic)</small>	Alert									
	Confusion	14	14		14					
	V									
	P								3	
	U									
E Temperature °C	≥ 39.1°									
	38.1-39.0°									
	37.1-38.0°									
	36.1-37.0°									
	35.1-36.0°		36.0							
≤ 35.0°										
NEWS TOTAL			13							

INJURIES

INJURY 1 WOUND



Wound

Location(s) Left Thorax

Length 5 cm

Base Visualised No

Gross Contamination No

Foreign Body No

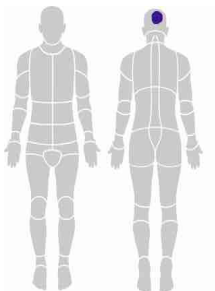
Mechanism Sharp Force

Damage To Missing Data

Interventions

Type	Time	Performed By	Notes
Clean / Irrigate / Suture	18:50 19:00	Unknown Doctor in Training	

INJURY 2 BRUISE / CONTUSION



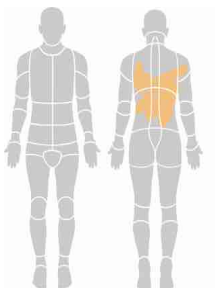
Bruise / Contusion

Location(s) Head

Notes

Boggy haematoma

INJURY 3 ABRASION



Abrasion

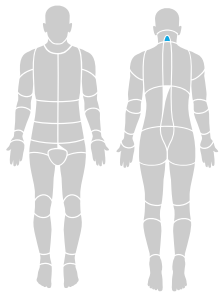
Location(s) Right Upper Back - Superficial
Upper Spine - Superficial
Left Upper Back - Superficial
Right Lower Back - Superficial
Mid Spine - Superficial
Left Lower Back - Superficial
Right Shoulder - Superficial
Right Upper Arm (Posterior) - Superficial

Gross Contamination No

INJURY 4

FRACTURE

Fracture



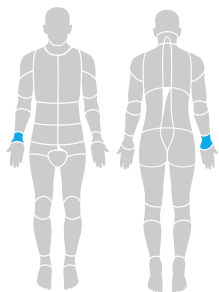
Location(s)

Spine > Occipitocervical > Odontoid Peg
(Closed)

INJURY 5

FRACTURE

Fracture



Location(s)

Upper Limb > Radius > Right > Distal Radius
(Open, Grade II, Neuro Compromise: Not Applicable, Vascular Compromise: No)

Interventions

Type	Time	Performed By	Notes
Fracture Reducti	0:02	Doctor in Training	

Notes

Cast applied

NOTES Ordered by time (oldest to newest)

ED ●
Pre Hospital ●

--:--



Boggy haematoma

Unknown

Injury - Bruise / Contusion

--:--



Cast applied

Unknown

Injury - Fracture

18:21



+ve blood interface kidney spleen /liver mod volume

Unknown

Test - Ultrasound

18:38



Nil head
C2 fracture
Left sided haemopneumothorax multiple rib fractures left side
G2 liver laceration moderate free fluid

Unknown

Imaging - CT

PATIENT DISCHARGE AND CASE SIGN-OFF

Case Details

Date of Birth **2nd February 1992**
Sex **Male**
Address **Unknown**
Bay / Room **5**
National Patient ID **TJ1234567**
Leader **Consultant**
Scribe **Doctor in Training**
Hospital **QEUH - Test/train/sim**
Destination **ICU**
Time **19:08**

Next Of Kin (Last Note)

Outstanding Items

Identify family
Tertiary survey
Formal blood results
Repeat rotem

Final Notes

Police discussion required