

EdWISE Scenario Airway Module – A4.1 Scenario 1 [25/9/2012]

Scenario 1: Challenging airway management				
Scenario:	Patient:	Simulator		
Airway management in patient with	Jimmy Chu	SIMMAN Essentials		
neck and facial trauma	50 year old man	SilvilviAN Essentials		
,		Participant Briefing:		
Case Summary:		BAT call		
Jimmy Chu is the owner of a shoe shop who was attacked this morning by a		50 year old man assaulted and burns from shop fire		
group of thugs. They hit him over the head and neck with a hockey stick and		GCS 15		
started a fire in the shop before leaving. Jimmy was in the shop for		BP 140/70		
approximately 10 minutes before the firemen and CDA arrived. He was in the thick of smoke and fire.		HR 90		
		RR 22		
Jimmy has no medical problems or allergies.		Sats 98%		
On arrival to the ED. Jimmy has a hearse voice with carbonasceus seet on the		ETA 1 minute		
On arrival to the ED, Jimmy has a hoarse voice with carbonaceous soot on the face and singed nose hairs.		LIATIMMULE		
race and singed nose nairs.		Ambulance Handover		
Jimmy has a threatened airway and wi	Il require emergent intubation of a			
,	in require emergent intubation of a	I – 50 year old man, owner of a shop		
potentially difficult intubation.		M – Alleged assault with a hockey stick to the side of the neck and head, then		
		shop was set fire to.		
Consideration given to the other injuries and maintenance of manual C-spine		I – Tender left side of the neck, some minor bruising to the left side of the		
protection is important in this scenario.		head, burns to face and upper torso, coughing lots and a hoarse voice.		
		S –HR 90, BP 140/70, sats 98% on O2, BSL 5.0, GCS 15		
		T – Cannula. 10mg maxalon. 5mg morphine.		
		A – No known allergies		
		M – nil medication		
		B – no known medical problems		
		O – Shop fire, lots of smoke and fire was near the patient, found on ground		
		floor. Nil other patients at this stage.		









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Clinical Issues	Human factors / Non technical issues	
Preparation and planning in trauma	Teamwork and leadership	
Management of the threatened airway – burns and soft tissue trauma	Forensic issue	
Management of burns – skin and inhalation	Communication with other services	

Learning Objectives:

Preparation and planning to receive trauma

To recognise potential airway compromise in burns

To co-ordinate team to manage potentially difficult airway

To recognise need for senior specialist help early

Faculty Actors: Faculty nurse will be capable and helpful, Jimmy the patient will be co-operative, he will have a hoarse voice and demonstrate stridor if a C-spine collar is applied

Patient Moulage: Black soot over face - especially nose and mouth, manikin starts covered in sheet with handover on the abdomen

Equipment & Props:

EdWISE Airway box and extras

Black moulage of soot

Laminated ambulance handover sheet









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Monitor: ED setup	Investigations:	
ECG	ABG – pH 7.30, PO2 80, PCO2 30, BE -4,	
SPO2	HCO3 23 CO 0.2	
CO2 ready		
NIBP		
Patient presentation	Expected response by participants	Faculty /Actors Notes
BAT Call		
50 year old man assaulted and burns	Preparation and planning of team and	Prompts team to prepare, finds items as asked
from shop fire	equipment	
GCS 15		Chauld have only the minute next he DAT call
BP 140/70		Should have only the minute per the BAT call
HR 90		
RR 22		At one minute mark pull back the sheet to reveal the ambulance
Sats 98%		handover
ETA 1 minute		
Initial Presentation	Structured approach to trauma – AcBCDE	Nurse – helpful, points out threat to airway if team not recognise 9can
Rhythm sinus		be through graded assertiveness)
HR 90	Recognition of threat to airway and potential difficulty	
BP 140/70	difficulty	Jimmy Chu – answers questions with hoarse voice, states throat hurts
RR 22	Recognition of trauma and potential C-spine	and coughs lots. Increasing difficulty and evidence of stridor if team
SPO2 98%	threat.	not acting on these actions. Comments again of being struck on neck
Temp 36		and head.
Conscious level GCS 15		









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Deterioration Increasing stridor and shortness of breath HR 100 BP 150/70 Sats 93% RR 26 Recovery	Team should prepare for difficult MII intubation Successfully intubates the patient wi Confirms ETT placement and secure Ongoing care post intubation	th RSI.	Prompt for post intubation care including consideration of disposition			
Post intubation HR 90 BP 140/60 Sats 94% (on 100%) RR as per team	Origonig care post intubation		Prompt for post intubation care including consideration of disposition			
Debrief Guide						
Key clinical issues		Key non technical issues				
		Communication in a team				
Recognition of potential airway compromise due to 2 factors trauma and		Forens	Forensic issue, evidence required for police			
airway burns						
Planning for intubation						
Possible C-spine injury requiring immobilisation						
CO poisoning and vascular injury requiring attention once airway secured						



Forensic case for police







Ambulance Handover

- I 50 year old man, owner of a shop
- M Alleged assault with a hockey stick to the side of the neck and head, then shop was set fire to.
- I Tender left side of the neck, some minor bruising to the left side of the head, burns to face and upper torso, coughing lots and a hoarse voice.
- S –HR 90, BP 140/70, sats 98% on O2, BSL 5.0, GCS 15
- T Cannula. 10mg maxalon. 5mg morphine.
- A No known allergies
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- O Shop fire, lots of smoke and fire was near the patient, found on ground floor. Nil other patients at this stage.



