2012 Ontario Medical First Response Challenge

ARCHERY - INDIVIDUAL SCENARIO – "NO ARM BANDED TEAM MEMBER"

Background Scenario

You are attending a festival at Humber College. After having a few drinks, archery team members decide to re-enact a scene from a movie whereby an apple is pierced by an arrow when perched on top of someone's head. An accident ensues.

Judges' Background – Do not share with competitors

The casualty observed the arrow coming towards them and raised their arms for protection and the arrow struck the casualty in the anterior upper right chest. The casualty is conscious upon discovery but looses consciousness (faints) at three minutes into the scenario, due to shock, the pain and the sight of the imbedded arrow. The casualty regains consciousness 2 minutes after fainting but is slightly dazed and disoriented with shortness of breath.

The "archer" can be used to call for help but is hysterical at the sight of the injured person. However directions need to be specific and clear since the archer is also somewhat intoxicated.
Only the one archer is available, and the judge is out of play.

INJURIES

- Target arrow imbedded in the anterior side of the upper right chest, between the clavicle and 6th rib.
- Bleeding from the wound.
- Conscious for first three minutes then faints
- Casualty regains consciousness 2 minutes after fainting but is still slightly dazed, and confused.
- Casualty complains about shortness of breath and disorientation (mainly due to intoxication).

CASUALTY PROMPTS

- Casualty is sitting when found
- Casualty is initially responsive but faints at three minutes into the scenario.
- Casualty regains consciousness at 2 minutes after fainting but is still dazed and disoriented.
- Casualty complains about shortness of breath and disorientation.
- Casualty is feeling a little nauseous but has not vomited.
- Casualty had a full meal but has also been consuming copious amounts of alcohol prior to accident.
- Casualty has no allergies
- Casualty agitated.

PROPS

Casualty

- Casualties need upper body clothing
- 1 archery target per scene.
- 1 waterproof tarp as floor covering per scene.
- 1 target arrow per scene.
- 1 archery bow per scene.

General

- 1 archer per scene (bystander).
- Gym-bag with 2 towels per scene.
- first aid kit

JUDGES' PROMPTS

- Judge informs team that the area is safe. IF ASKED.
- Casualty's respirations are 30, rapid and shallow initially. Subsequent Respirations are 30 rapid and shallow.
- Casualty's pulse is 110 (regular and weak) initially. Subsequent pulse is 125 regular and weak
- Casualty's pupils are equal, 4 mm and reactive.
- Casualty's skin is cool and clammy throughout scenario.
- Announcements:
  - 1st announcement to start,
  - 2nd announcement at 3 minutes into the scenario (Primary Survey complete and Casualty faints)
  - 3rd announcement at 5 minutes into the scenario (casualty regains consciousness)
  - 4th announcement at 2 minutes remaining
  - 5th announcement to end the competition.

	1st Set	**2nd Set**
Respiration	30 rapid and shallow	30 rapid and shallow
Pulse	110 weak and regular	125 weak and regular
Skin	Pale/Cool/Clammy	Pale/Cool/Clammy
Pupils	4mm and reactive	4mm and reactive
BP	82/46	126/82
LOC	Responsive	Responsive
LOA	Person and Place ONLY	Person and Place ONLY

- Signs "as found"
- Symptoms Shortness of breath
- Allergies: Shellfish
- Meds: None
- Past Med History: Asthma
- Last Meal: Full meal prior to event
- Events: Casualty and friend were out celebrating their archery team victory tonight. After having a few drinks they decide to re-enact a scene from a movie whereby an apple is pierced by an arrow when perched on top of someone's head. The arrow misses.
- Judge informs competitor that bystander may assist - IF ASKED. Will be judge.
- Any repeat vitals will be a repeat of the second set.

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Team Number _____

Team Member #1 _____

Team Member #2 _____

Judges' Names _____

CASUALTY

Page 4, Primary Survey	(Possible 320) Sub-Total	_____
Page 5, Secondary Survey	(Possible 130) Sub-Total	_____
Page 6, Secondary Survey	(Possible 330) Sub-Total	_____
Page 7, Secondary Survey, Tx	(Possible 160) Sub-Total	_____
Page 8, Recording	(Possible 130) Sub-Total	_____
	(Possible 1070) **Total**	_____

Total Points Awarded	

SCENE / PRIMARY SURVEY: This section is active for the first 3 minutes of the scenario only. During these first 3 minutes, the competitor may perform the actions that are both listed here and in the Secondary Survey. After the 3 minutes, the competitor is eligible to receive marks only in the Secondary Survey and no marks may be awarded in this Primary Survey. ***Actions in this section may be done in any order.***		**A/S**	**POINTS**	**NOT DONE**
1.1	Did First Aider take charge of the situation? *(Casualty advised not to move?)*	**S**	**20**	**0**
1.2	Did First Aider I.D. self and offer to help?	**A/S**	**20**	**0**
1.3	Did First Aider obtain consent to help?	**S**	**20**	**0**
1.4	Did First Aider call out for help from by-standers?	**A**	**20**	**0**
1.5	Were hazards assessed?	**S**	**20**	**0**
1.6	Did First Aider put on protective gloves? *(Must actually be worn to receive marks)*	**S**	**20**	**0**
1.7	Was archery range secured from others launching arrows?	**A/S**	**20**	**0**
1.8	Did First Aider determine if there are other casualties? *(none)*	**A/S**	**20**	**0**
1.9	Did First Aider determine/state the mechanism of injury? *(Shot by an arrow)*	**A/S**	**20**	**0**
1.10	Did First Aider assess responsiveness? *(Casualty is conscious during Primary Assessment)*	**A/S**	**20**	**0**
1.11	Did First Aider assess airway? *(Blood in mouth, casualty able to spit, patent airway)*	**A/S**	**20**	**0**
1.12	Did First Aider assess breathing? *(Correct Respirations to Rapid and Shallow)*	**A/S**	**20**	**0**
1.13	Did First Aider assess pulse? *(Correct Pulse to Weak and Regular)*	**A**	**20**	**0**
1.14	Did First Aider assess the casualty's skin condition/temperature? *(Correct to Pale/Cool/Clammy)*	**A**	**20**	**0**
1.15	Did First Aider perform a Rapid Body Survey?	**A**	**20**	**0**
1.16	Did First Aider activate EMS? *(Campus Police/Judge are available to do this)*	**A/S**	**20**	**0**
SUB-TOTAL POINTS AWARDED (Possible 320)				

SECONDARY SURVEY: Actions in this section may be performed by the competitor in the first 3 minutes of the scenario as well as the **Primary Survey.** After the first 3 minutes, this is the only section that points shall be awarded to. ***Actions in this section may be done in any order.***		**A/S**	**POINTS**	**NOT DONE**
	History of the casualty:			
2.1	Did the First Aider ask bystander if they know casualty? *(If yes, answer is a fellow archery club member)*	**S**	**10**	**0**
2.2	Did the First Aider check for a medical alert device? *(bracelet, necklace etc. None Present)*	**A/S**	**10**	**0**
2.3	Did the First Aider ask casualty about any allergies? *(Crustaceans)*	**S**	**10**	**0**
2.4	Did the First Aider ask casualty if he/she had eaten? *(Yes, Full Meal prior to accident)*	**S**	**10**	**0**
2.5	Did First Aider ask casualty if he/she had any other medical history? *(If yes, reply Asthma)*	**S**	**10**	**0**
2.6	Did First Aider ask bystanders how the incident happened? *(Hit by arrow during stunt attempt.)*	**S**	**10**	**0**
	Casualty's Vital Signs Assessment			
3.1	Did First Aider determine Level of Consciousness? *(If yes found to be conscious but anxious)*	**A**	**10**	**0**
3.2	Did First Aider determine Level of Awareness? *(If yes, then orientated to Person and Place ONLY)*	**A**	**10**	**0**
3.3	Did First Aider assess Respirations? *(Correct to 30 Rapid and Shallow)*	**A**	**10**	**0**
3.4	Did First Aider assess Pulse? (Carotid or Radial) (Correct to 125 Weak and Regular)	**A**	**10**	**0**
3.5	Did First Aider assess Skin Condition & Temperature? *(Correct to Pale/Cool/Clammy)*	**A/S**	**10**	**0**
3.6	Did First Aider take BP? (Auscultation or Palpation) *(Correct BP to 82/46 or 82/P)*	**A**	**10**	**0**
3.7	Did First Aiders administer O2(non-rebreather @ 10-15 LPM)	**A**	**10**	**0**
SUB-TOTAL POINTS AWARDED (Possible 130)				

	Casualty - Head to Toe Assessment			
4.1	Check scalp? *(No deformity)*	**A**	**10**	**0**
4.2	Check eyes? *(No injury/deformity)*	**A**	**10**	**0**
4.3	Check nose?	**A**	**10**	**0**
4.4	Check mouth? *(Clear)*	**A**	**10**	**0**
4.5	Check jaw?	**A**	**10**	**0**
4.6	Check ears? *(Clear - No Fluids)*	**A**	**10**	**0**
4.7	Check neck?	**A**	**10**	**0**
4.8	Check collarbones?	**A**	**10**	**0**
4.9	Check shoulders?	**A**	**10**	**0**
4.10	Check arms/hands?	**A**	**10**	**0**
4.11	Check chest? *(Right upper chest arrow protruding)*	**A**	**10**	**0**
4.12	Auscultate chest *(Depressed breath sounds to the right lung)*	**A**	**10**	**0**
4.13	Check abdomen? *(NO Pain or Deformity)*	**A**	**10**	**0**
4.14	Check back?	**A**	**10**	**0**
4.15	Check pelvis?	**A**	**10**	**0**
4.16	Check both legs?	**A**	**10**	**0**
4.17	Check both ankles and feet?	**A**	**10**	**0**
	Impaled Arrow In Right Upper Chest			
5.1	Was the impaled object recognized?	**A/S**	**10**	**0**
5.2	Was a sterile dressing applied around impaled object?	**A**	**10**	**0**
5.3	Was the impaled arrow steadied and supported?	**A**	**10**	**0**
5.4	Was the casualty placed in position of most comfort?	**A**	**10**	**0**
5.5	Was there an attempt to make wound air tight?	**A**	**10**	**0**
5.6	Was the bandaging reassessed when the casualty complained about difficulty breathing?	**A**	**10**	**0**
	Shock and General			
6.1	Was effort made to cover casualty to maintain body temperature?	**A**	**10**	**0**
6.2	Was casualty reassured?	**A**	**10**	**0**
6.3	Was casualty reassured more than once?	**A**	**10**	**0**
6.4	Was the casualty kept at rest throughout treatment?	**A**	**10**	**0**
6.5	Was casualty's Level of Consciousness reassessed? *(If yes found to be conscious but anxious)*	**A**	**10**	**0**
6.6	Was casualty's Level of Awareness reassessed? *(If yes, then orientated to Person and Place ONLY)*	**A**	**10**	**0**
6.7	Was casualty's respirations reassessed? *(30 Rapid and Shallow)*	**A**	**10**	**0**
6.8	Was casualty's pulse reassessed? *(125 Weak and Regular)*	**A**	**10**	**0**
6.9	Was casualty's temperature reassessed? *(Cool to Touch)*	**A**	**10**	**0**
6.10	Was casualty's BP reassessed? (Auscultation or Palpation) *(Correct BP to 126/82 or 126/P)*	**A**	**10**	**0**

SUB-TOTAL POINTS AWARDED (Possible 330)				
	Care of Unconscious			
7.1	Did First Aider recognize the casualty becoming unconscious?	**A/S**	**10**	**0**
7.2	Did First Aider assess Airway?	**A**	**10**	**0**
7.3	Did First Aider assess Breathing? *(Present)*	**A**	**10**	**0**
7.4	Did First Aider assess Pulse? *(Present)*	**A**	**10**	**0**
7.5	Was EMS updated that the casualty became unconscious?	**A**	**10**	**0**
	Personal Protective Equipment			
8.1	Were gloves worn for duration of scenario ?	**A**	**10**	**0**
8.2	Were gloves effective? *(Torn gloves must be replaced.)*	**A**	**10**	**0**
	Handover to EMS			
9.1	Did the First Aider identify themselves to EMS?	**A**	**10**	**0**
9.2	Did the First Aider identify the casualty? *(NAME & AGE)*	**A**	**10**	**0**
9.3	Did the First Aider identify the patient's chief complain? *(Embedded arrow to right upper chest, difficulty breathing)*	**A**	**10**	**0**
9.4	Did the First Aider report physical findings? *(Embedded arrow in chest and loss of consciousness)*	**A**	**10**	**0**
9.5	Did the First Aider report the treatment of the wounds?	**A**	**10**	**0**
9.6	Did the First Aider report the past medical history? *(Asthma)*	**A**	**10**	**0**
9.7	Did the First Aider report vital signs?	**A**	**10**	**0**
9.8	Did the First Aider describe the treatment for injuries?	**A**	**10**	**0**
9.9	Did the First Aider report the response to treatment provided?	**A**	**10**	**0**
SUB-TOTAL POINTS AWARDED (Possible 160)				

	Recording			
10.1	Was the date and time recorded?	**A**	**5**	**0**
10.2	Was the patient's information recorded? *(If unable to obtain or left blank then NO points)*	**A**	**5**	**0**
10.3	Was the First Aider's information recorded?	**A**	**5**	**0**
10.4	Was the initial Level of Consciousness recorded?	**A**	**5**	**0**
10.5	Was incident history recorded?	**A**	**5**	**0**
10.6	Was Mechanism of Injury recorded?	**A**	**5**	**0**
10.7	Was Past Medical History recorded?	**A**	**5**	**0**
10.8	Were Allergies' recorded?	**A**	**5**	**0**
10.9	Was the Time of Last Meal recorded?	**A**	**5**	**0**
10.10	Was the impaled arrow in the right chest recorded?	**A**	**5**	**0**
10.11	Was the initial ABC status recorded? *(Airway Patent; Breathing Adequate; Skin Pale/Cold/Clammy)*	**A**	**5**	**0**
10.12	Was Loss of Consciousness Recorded? *(If no time recorded then no mark)*	**A**	**5**	**0**
10.13	Was the treatment for the impaled arrow in the chest recorded? *(Bulk dressings or log rolls)*	**A**	**5**	**0**
10.14	Was the 1st vital signs Level of Consciousness recorded with the time taken ? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.15	Was the 1st vital signs Level of Awareness recorded with the time taken ? *(Has to state aware to Person and Place)*	**A**	**5**	**0**
10.16	Was the 1st vital signs Respirations recorded with the time taken? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.17	Was the 1st vital signs Pulse recorded with the time taken? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.18	Was the 1st vital signs Skin Condition & Temperature recorded with the time taken? *(If no time, then no mark.)*	**A**	**5**	**0**
10.19	Was the 1st vital signs BP recorded with the time taken? (If no time recorded, then no mark.)	**A**	**5**	**0**
10.20	Was the 2nd vital signs Level of Consciousness recorded with the time taken ? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.21	Was the 2nd vital signs Level of Awareness recorded with the time taken ? *(Has to state aware to Person and Place)*	**A**	**5**	**0**
10.22	Was the 2nd vital signs Respirations recorded with the time taken? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.23	Was the 2nd vital signs Pulse recorded with the time taken? *(If no time recorded, then no mark.)*	**A**	**5**	**0**
10.24	Was the 2nd vital signs Skin Condition & Temperature recorded with the time taken? *(If no time, then no mark.)*	**A**	**5**	**0**
10.25	Was the 2nd vital signs BP recorded with the time taken? (If no time recorded, then no mark.)	**A**	**5**	**0**
10.26	Was administration of O2 by NRM @10-15LPM recorded?	**A**	**5**	**0**
SUB-TOTAL POINTS AWARDED (Possible 130)				