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| **Case Title**  | Spinal and Head Trauma |
| **Scenario Name** | Teenage Diver |

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| **Learning Objectives -** [**Use action words**](http://ubccpd.ca/sites/ubccpd.ca/files/Accreditation_Learning%20Objectives_%20Verbs.pdf) |
| **Knowledge:**1. Recognize the presentation of spinal trauma
2. Describe the management of neurogenic shock
 |
| **Skills:**1. Perform management of the injured patient with spinal trauma
2. Perform management of a patient in Neurogenic shock
 |
| **Attitude/Behaviours**1. Demonstrate Team skills
2. Demonstrate Situational awareness
3. Demonstrate Graded Assertiveness
 |
| **Scenario Environment** |
| **Location** | Emergency Department |
| **Monitors** | Standard |
| **Props/Equipment** | C-spine collar |
| **Make-up/Moulage** |  |
| **Potential Distractors** |  |

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| **Case Introduction:** |
| **Pre-hospital Notification:** 18 year old male. Dived of a cliff into shallow water. Arrival by helicopter – scene response. C-spine secured by EHS.**On Arrival/History:** 18 year old male, Drinking at bush party, dive from 15 foot cliff into shallow water. Came up face down, face underwater for 5 minutes before rescued by friends. |

| **Patient Parameters** | **Effective Management** | **Notes** |
| --- | --- | --- |
| **Phase 1: Quad Injury****Condition:** Unstable **Initial Assessment*** **Heart Rhythm:** Sinus Tachycardia
* **HR:** 140
* **BP:** 90/60
* **RR:** 14
* **SP02**: 93%
* **CNS:** GCS 8-10 (M1(quad injury), E3-4, V4)
 | 1. **Take a focused history** (see Notes column)
2. **Medical Management**
* ABCs
* History and Physical Exams
* IVs X 2, Fluids
* Assess Neurologic deficit
* Airway- intubate with correct meds
 | 1. **Focused history**

**PMHx**Injury Summary * C-spine – quad injury
* Head
* Drowning- aspiration pneumonitis
 |
| **Phase 2: Neurogenic Shock****Condition:** UnstablePatient goes into neurogenic shock with hypotension resistant to fluids with a bradycardia**Physical Examination*** **Heart Rhythm:** Sinus Bradycardia
* **HR:** 35
* **BP:** 60/30
* **RR:** 8
* **SP02:** 80% if not intubated
* **CNS:** GCS 3 (E-1, V-1, M-1)
 | 1. **Patient Reassessment** (see Notes column)-*Recognizes change in condition*
2. **Medical Management:**
* Recognition of neurogenic shock and treat with fluids and pressors
 | 1. **Patient Reassessment**

**Airway*** Unable to maintain own- must be intubated if not already done

**Breathing** * Ineffective breathing

**Circulation*** Absent peripheral pulses
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| **Expected Patient Management** | **Debriefing Points** |
| 1. **Student**
2. **R1**
3. **Senior IM resident**
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**References:**

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