**PROGRAM AGENDA:**

|  |  |  |
| --- | --- | --- |
| Date | Time | Program length |
| April 5th 2022 | 9:00 am -12pm | 3 hours |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Duration | Session Title / Format | Content Description | Parallel session | Number of Learners | Faculty | Room Requirements |
| 5 minutes | **Introduction (Didactic)** |  | No | 10-12 | All | NH 134 |
| 25 – 30 minutes | **Skills Session 1** | Fiberoptic Intubation | Yes | 3-4 | 1 | Skills Room |
| 25 – 30 minutes | Pericardiocentesis | 3-4 | 1 | Skills Room |
| 25 – 30 minutes | Chest Tubes | 3-4 | 1 | Skills Room |
| 25 – 30 minutes | **Skills Session 2** | Surgical Airway/ Cric | Yes | 3-4 | 1 | Skills Room |
| 25 – 30 minutes | Resuscitative Hysterotomy | 3-4 | 1 | Skills Room |
| 25 – 30 minutes | Transvenous Pacemaker | 3-4 | 1 | Skills Room |
| 5 minutes | **Wrap up / Evaluations** |  | No | 10-12 | All | NH 134 |

**EDUCATIONAL OVERVIEW:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Title:** | HAEMR High Acuity Low Frequency Procedural Skills Course | | | |
| **Course ID** | EMR 3-047-21 | | | |
| **Brief Description:** | Hands on skills course for Senior EM Residents, to allow for practice of high acuity low frequency procedures. | | | |
| **Course Director:** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine  Partners ID: | | | |
| **Additional instructors/ facilitators:** | Name: | | | Position: |
|  | Calvin Brown | | |  |
|  | Valerie Dobiesz | | |  |
|  | TBD | | |  |
| **Learners:** | Level (e.g. PGY1) | Numbers | Notes | |
| PGY 4 | 10-12 |  | |
| **Goals (Desired Learner Outcomes)** | Residents will be able to perform 6 rare, high acuity procedures with minimal guidance | | | |
| **Overarching Educational Objectives[[1]](#footnote-1):** | Following this course, the participants will be able to:  1. Perform a flexible fiberoptic intubation  2. List indications for a resuscitative hysterotomy  3. Place a temporary transvenous pacer wire  4. Demonstrate a bougie assisted cric  5. Demonstrate appropriate placement of chest tube and proper seldinger technique for pigtail catheter. | | | |
| **Activity Summaries** | 1. Introduction  2. Skills Session 1 – Fiberoptic Intubation  3. Skills Session 2 – Pericardiocentesis  4. Skills Session 3 – Chest Tubes  5. Skills Session 4 – Surgical Airway / CRIC  6. Skills Session 5 – Resuscitative Hysterotomy  7. Skills Session 6 – Transvenous Pacemaker  8. Wrap up/ Evaluations | | | |
| **Assessment plans** | What strategies will be used? (Example checklists)  Will the assessment be recorded, by department or service? No  1. Direct feedback in real time for formative learning only. | | | |

**Skills Station #`1:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Flexible Fiberoptic Laryngoscopy** | | | | |
| **Lead Instructor for Station** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. Flexible Fiberoptic Laryngoscopy | | | | |
| **Specific Objectives for this Station:** | Following completion of this station, the participants will be able to:   1. Describe the anesthesia and analgesia options for flexible fiberoptic intubation. 2. Demonstrate appropriate mechanics for holding and manipulating scope. 3. Demonstrate visualization of larynx using flexible fiberoptics. | | | | |
| **Assessment strategies** | Direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / **NO**  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills Room | | | | |
| **Simulation Specialists:** | Set-up and breakdown, support as needed. | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  | Flexible Fiberoptic Laryngoscopy | Table | 3 | X |  |
|  |  | Fiberoptic Scope  (A-Scopes or Scopes/Towers) | 4 | X |  |
|  |  | Airman | 4 | X |  |
|  |  | ETT  (Sizes: 6-7) | 4 | X |  |
|  |  | BVM | 4 | X |  |

**Skills Station #2:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Pericardiocentesis** | | | | |
| **Lead Instructor for Station** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. Ultrasound guided Pericardiocentesis | | | | |
| **Specific Objectives for this Station:** | Following completion of this station, the participants will be able to:   1. Discuss the indications for an emergent pericardiocentesis 2. Demonstrate the pertinent landmarks 3. Demonstrate successful aspiration of a pericardial effusion | | | | |
| **Assessment strategies** | Direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / **NO**  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills room | | | | |
| **Simulation Specialists:** | Set up, Breakdown, support as needed. | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  |  | Laptop + Screen for projection | 1 | X |  |
|  |  | US unit | 1 | X |  |
|  |  | Blue Phantom Pericardiocentesis Trainer | 1 | X |  |
|  |  | Central Line Insertion Kit | 1 | x |  |
|  |  | Triple Lumen Central Line | 1 | x |  |
|  |  | 18g spinal (LP) needle | 1 | x |  |
|  |  | 20g spinal (LP) needle | 1 | x |  |
|  |  | 30cc syringe | 2 | x |  |

**Skills Station #3:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Chest Tube Placement** | | | | |
| **Lead Instructor for Station** | Name:  Title/position: | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. Chest Tube Skills | | | | |
| **Specific Objectives for this Station:** | Following completion of this station, the participants will be able to:   1. Verbalize correct landmarks for insertion site for chest tube and pigtail catheter. 2. Demonstrate appropriate placement of chest tube (focusing on dilating tract with Kelly or finger). 3. Secure chest tube to chest wall. 4. Demonstrate proper seldinger technique for pigtail catheter. | | | | |
| **Assessment strategies** | Observation and direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / **NO**  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills Room | | | | |
| **Simulation Specialists:** | Set-up, re-setting model between groups, and breakdown. | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  |  | Table | 3 | X |  |
|  |  | Chair | 10 | X |  |
|  |  | Chux | 3 | X |  |
|  |  | Chest Tube Model (with clamps to secure to table) | 3 | X |  |
|  |  | Chest Tube Model Insert  (pork rib segments wrapped in ioban) | 15 | X |  |
|  |  | Chest Tube Tray containing:   * Kelly Clamp (2) * Scalpel (1) * Suture Scissor (1) | 3 | X |  |
|  |  | 22-26 French Chest Tube | 3 | X |  |
|  |  | 0 Silk Suture with needle (or similar) | 40 | X |  |
|  |  | Pleurevac | 1 | X |  |
|  |  | Pigtail Catheter Tray | 2 | X |  |
|  |  | Non-Sterile Gloves (Sizes: S / M / L / XL) | 1 box each | X |  |
|  |  | Kick Bucket | 2 | X |  |
|  |  | Red Bag | 2 | X |  |
|  |  | Sharps Disposal Container | 2 | X |  |

**Skills Station #4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Surgical Airway** | | | | |
| **Lead Instructor for Station** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. Cricothyroidotomy skills | | | | |
| **Specific Objectives for this Station:** | Following completion of this station, the participants will be able to:   1. Demonstrate bougie-assisted cric. 2. Demonstrate percutaneous cric. 3. Demonstrate open surgical cric. | | | | |
| **Assessment strategies** | Direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / **NO**  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills Room | | | | |
| **Simulation Specialists:** | Set-up and breakdown, support as needed. Order Pig Tracheas ahead of time. | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  | Surgical Airway | Pig Tracheas | 20 | X |  |
|  |  | Chux | 20 | X |  |
|  |  | Box of Non-Sterile Gloves  (Sizes: S / M / L) | 1 | X |  |
|  |  | Open Cric Kit:   * Scalpel * Trousseau Dilator * Trach Hook * Trach Tube * Bougie | 5 | X |  |
|  |  | Percutaneous Cric Kit:   * Introducer Needle * Guidewire * Dilator with Trach Tube | 10 | X |  |
|  |  | Table | 3 | X |  |
|  |  | Stool | 5 | X |  |
|  |  | Kick Bucket | 2 | X |  |
|  |  | Roll of Red Biohazard Disposal Bags | 1 | X |  |

**Skills Station #5:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Transvenous Pacing** | | | | |
| **Lead Instructor for Station** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. To review the indications for placement of a temporary transvenous pacing wire (temp wire) and practice temp wire placement using a simulator | | | | |
| **Specific Objectives for this Station:** | Following completion of this station, the participants will be able to:  1. Verbalize the indications for placement of a temp wire  2. Verbalize and demonstrate the critical steps for placing a temporary pacing wire  3. Demonstrate effective use of the generator box to pace the patient | | | | |
| **Assessment strategies** | Direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / NO  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills Room | | | | |
| **Simulation Specialists:** | Set-up and breakdown, support as needed. Sim Specialists to operate Pacerman | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  |  | Pacerman (with laptop, cables, fluid) | 1 | 1 |  |
|  |  | Pacer wire | 2 | 2 |  |
|  |  | Pacer Generator | 1 | 1 |  |
|  |  | Table | 2 | 2 |  |
|  |  | Chairs | 5 | 5 |  |
|  |  | A/V Setup (Screen, projector, computer, laptop connection to connect to Pacerman) | 1 | 1 |  |

**Skills Station #6:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Station Title:** | **Resuscitative Hysterotomy** | | | | |
| **Lead Instructor for Station** | Name: Andrew Eyre, MD  Title/position: Attending, Department of Emergency Medicine | | | | |
| **Additional Instructors:**  (Please include names where available) | Name:  Discipline:  Level of training: | | | | |
| **Skills** | 1. Resuscitative Hysterotomy | | | | |
| **Specific Objectives for this Station:** | Following this session, the participants should be able to:  1. List the indications for performing a Resuscitative Hysterotomy  2. Demonstrate ability to perform a Resuscitative Hysterotomy on simulated model | | | | |
| **Assessment strategies** | Direct feedback in real time for formative learning only. | | | | |
| **Will there be Industry Involvement?** | YES / NO  (If YES, there will be a requirement to contact the Office of Industry Interactions) | | | | |
| **[Ops]**  **Room(s) required:** | Skills Room | | | | |
| **Simulation Specialists:** | Set-up and breakdown, support as needed. | | | | |
| **Specific equipment required:** | Station | Equipment | Quantity | STRATUS to provide | Faculty to provide |
|  |  | AV Setup (A/V Setup (Screen, projector, computer) | 1 | 1 |  |
|  |  | OB Mannequin | 1 | 1 |  |
|  |  | Infant Mannequin | 1 | 1 |  |
|  |  | Resuscitative Hysterotomy Wubble model with fluid | 4 | 4 |  |
|  |  | Scalpel | 5 | 5 |  |
|  |  | Bed | 1 | 1 |  |
|  |  | Heavy Mayo Scissors | 1 | 1 |  |
|  |  | Right angle retractors | 2 | 2 |  |
|  |  | Gowns | 5 | 5 |  |
|  |  | Towels | 5 | 5 |  |
|  |  | Ioban | 5 | 5 |  |

1. See Objectives Development Guide [↑](#footnote-ref-1)