1. **Condition:**

This policy applies to all healthcare providers.

2. **Definition:**

   2.1. **Resuscitation Services** – are those provided to patients with cardiac, pulmonary, or cardiopulmonary arrest who require cardiopulmonary resuscitation (CPR).

   2.2. **CPR Committee** – is multidisciplinary committee reporting to the Executive Director.

   2.3. **Code Blue team** – comprises the designated staff members who respond to code blue events.

   2.4. **Saudi Heart Association** – is the organization in Saudi Arabia responsible for organizing CPR activities using standards established and maintained by the American Heart Association (AHA).

3. **Purpose:**

   3.1. To ensure immediate and appropriate response to cardiopulmonary arrest or impending cardiopulmonary arrest.

   3.2. To formalize the policies, procedures and responsibilities regarding resuscitation services throughout KKH/KAUH facilities.

4. **Policy:**

   4.1. Any qualified person on the scene shall initiate lifesaving measures immediately in the event of an arrest.

   4.2. All personnel participating in CPR procedures shall use appropriate standard precautions to protect themselves (refer to Isolation Precaution: Transmission-Based Precautions).

   4.3. Documentation/review of Code Blue events:

      4.3.1. A Unit nurse acts as recorder until the arrival of an Advanced Life Support (ALS) qualified nurse, who will then take over recording.
4.3.2. All actions during the Code Blue are documented on Cardiopulmonary Resuscitation Record and the original is placed in the patient's medical record.

4.3.3. Immediate after the event and before the end of the shift, the ALS nurse should:

4.3.3.1. Complete Cardiopulmonary Resuscitation Record and fax it to the Code Blue Coordinator.

4.3.3.2. Place the original Cardiopulmonary Resuscitation Record and EKG tracings in the patient's medical record.

4.3.4. The second clinician reviewer will complete his/her review within 5 days.

4.3.5. The Code Blue Coordinator will produce a quarterly QI review for all KKUH/KAUH Code Blue events.

5. Procedures

5.1. RESPONSIBILITIES DURING A CODE BLUE EVENT

The current American Heart Association (AHA) guidelines taught in KKUH/KAUH Advanced Life Support Courses (ALS) courses and followed throughout KKUH/KAUH emphasize a team approach to resuscitation. The person who finds the person unconscious and unresponsive is responsible for initiating the emergency response and carrying out BLS until the Code Blue Team arrives.

5.2 During a Code Blue, the Code Blue Team leader should assign the Code Blue Team to the following roles:

5.2.1 Airway Management
5.2.2 Chest Compressions
5.2.3 IV Access and Drug Administration
5.2.4 Defibrillation and Electrical Therapy
5.2.5 Code Recording

5.3 To ensure high quality, effective CPR during a cardiac arrest a provider should not perform more than 2 minutes of continuous chest compressions. This role should be shared with a second BLS provider (usually the individual responsible for airway management).

5.4 The following role descriptions are complaint with AHA/ALS guidelines and KKUH/KAUH policy (also see attachment Code Blue Protocol)

5.4.1 First Code Blue Team member on the scene assumes role of team leader and assigns team roles until other team members arrive, ensures documentation and code recording, begins and follows ALS resuscitation guidelines. This will include, but is not limited to:

- Defibrillation or other electrical therapy when indicated.
- Administration of IV medications according to ALS algorithms.
- Accuracy of the documentation on which they sign-off.

5.4.2 Other Code Blue Team members are responsible for:

- Airway management and ventilation (anesthesiologist)
- CPR
- IV access / medication administration
- Defibrillation / Electrical therapy
- Documentation

5.4.3 Nursing Supervisor / Charge Nurse of the Unit Where the Code Blue Occurs / Nursing Shift Coordinator:

- Clear the room of all personnel who are not involved in the CPR
- Observes the performance of staff and corrects the performance as necessary.
- Obtains additional equipment and help, as necessary.
- Ensures that additional appropriate on-call clinicians/anesthesiologists/etc. are contacted.
- Arranges for the transfer of the patient to the appropriate intensive care unit.
- Ensures communication with the patient's family.

5.4.4 EKG Technician

- Records EKGs as requested.

6. Reference:

6.5. Isolation Precautions: Transmission-Based Precautions
6.6. Individual manufacturer’s users’ guides for defibrillator/monitor
CODE BLUE PROTOCOL – KKUH/KAUH Facilities

When to say:

<table>
<thead>
<tr>
<th>SITUATION</th>
<th>EXAMPLE (Repeat statement 3 times)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To announce a Code Blue event by overhead pager:</td>
<td>Pediatric Code Blue 11B</td>
</tr>
<tr>
<td>Announce code and location three times, wait one minute and repeat.</td>
<td>Pediatrics Code Blue 11B</td>
</tr>
<tr>
<td>Clearly state whether it is Adult or Pediatrics Code Blue</td>
<td>Pediatrics Code Blue 11B (and repeat after one minute)</td>
</tr>
<tr>
<td>To cancel:</td>
<td>Cancel Pediatrics Code Blue 11B</td>
</tr>
<tr>
<td></td>
<td>Cancel Pediatrics Code Blue 11B (and repeat after one minute)</td>
</tr>
</tbody>
</table>

Who / how to call:

**Adult Code Blue Team:** The following staff members will receive a group pager notification:

<table>
<thead>
<tr>
<th>0700 – 1600 H</th>
<th>1600 – 0700 H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiology Resident / Fellow on call</td>
<td>Cardiology Resident / Fellow on call</td>
</tr>
<tr>
<td>Intensive Care Resident/Registrar on call</td>
<td>Internal Medicine Resident Physician</td>
</tr>
<tr>
<td>Anesthesiologist</td>
<td>Anesthesiologist</td>
</tr>
<tr>
<td>Nurse from CCU</td>
<td>Nurse from CCU</td>
</tr>
<tr>
<td>Nurse from MICU</td>
<td>Nurse from MICU2</td>
</tr>
<tr>
<td>Nurse from the ward where the code is taking place</td>
<td>Nurse from the ward where the code is taking place</td>
</tr>
</tbody>
</table>

**Pediatric Code Blue Team:** The following staff members will receive a group pager notification:

<table>
<thead>
<tr>
<th>0700 – 1600 H</th>
<th>1600 – 0700 H</th>
</tr>
</thead>
<tbody>
<tr>
<td>PICU Physician</td>
<td>PICU Physician</td>
</tr>
<tr>
<td>Anesthesiologist</td>
<td>Anesthesiologist</td>
</tr>
<tr>
<td>Nurse from PICU</td>
<td>Nurse from PICU</td>
</tr>
<tr>
<td>Clinical Pharmacist</td>
<td>Clinical Pharmacist</td>
</tr>
</tbody>
</table>
CPR Committee - Responsibilities

1. **Membership of the CPR Committee.**

   Members are appointed by the CEO and include:

   **Representatives from:**
   - Nursing Services Department
   - Cardiology/Medical Department
   - Surgical and Diagnostic Services Department
   - Anesthesia / Critical Care Department
   - Pharmacy Services Division
   - Pediatric Department
   - Emergency Department

2. **Chairperson, CPR Committee** shall:

   A. Convene meetings of the CPR Committee at least ten times per year.
   
   B. Conduct meetings in accordance with KKUH/KAUH Meetings.
   
   C. Sign the minutes of the meetings.
   
   D. Assign tasks to Committee members for their review and presentation to the full membership.
   
   E. Appoint a Program Director for each type of Life Support course offered based on the recommendation from Education and Training Unit.

3. **CPR Committee** is responsible for implementing operational policies governing cardiopulmonary resuscitation and equipment and shall:

   A. Adhere to National and International guidelines, standards and policies for CPR.
   
   B. Meet at least ten times per year.
   
   C. Determine who shall receive CPR training.
   
   D. Review crash cart standards and recommend additions and/or deletions to contents as well as placement of carts in KKUH/KAUH facilities.
   
   E. Approve purchase orders for all CPR equipment, including defibrillators.
   
   F. Retain a list of crash cart locations (maintained by Clinical Engineering Unit).
   
   G. Establish and review standardized policies/protocols related to resuscitation services for all of KKUH/KAUH and provide consultations as needed regarding their implementation.
   
   H. Review the quarterly Code Blue report and implement or recommend corrective action as necessary.
4. **Education and Training Unit** is responsible for teaching and organization all the Life Support courses. They shall act as the Primary KKUH/KAUH point of contact for the following KKUH/KAUH CPR Center activities:

   A. Order all course material / booklets for CPR courses as required by the Center.

   B. Organize all activities and preparations for CPR courses, in conjunction with the Program Director and Individual Course Directors, including identifying instructors, advertising courses, receiving applications, distributing course material.

   C. Maintain records of results for all CPR programs.

   D. Produce an annual timetable of all Center courses.

   E. Maintain an up-to-date register of all Instructors in conjunction with Program Director.

   F. Coordinate the ordering of CPR equipment and materials through the CPR Committee

   G. Issue no-show letters to candidates who fail to show for all Life Support classes

5. **Secretary, CPR Committee shall:**

   A. Accept requests / proposals for items to be considered for the agenda.

   B. Distribute Committee meeting agendas two weeks prior to the scheduled meeting.

   C. Record and finalized the minutes of all meetings within one week, and:

      1) Obtain the signature of the Chairman on the minutes.

      2) Make copies of the minutes and distribute to members.

6. **Multidisciplinary Mock Code Blue Team** consists of Advanced Life Support Instructors (ACLS/PALS), and shall:

   A. Develop an annual plan to conduct mock code blue events in KKUH/KAUH to cover all units and shift patterns.

   B. Immediately following each Mock Code Blue event:

      1) Provide verbal feedback to the staff on the unit.

      2) Complete the mock code blue performance evaluation form.

      3) Make recommendations as required to the Medical Director, Chairman of the Department and Quality Management Department.
7. **Central and District Pharmacy Staff shall:**

   A. Maintain supplies of emergency cart medication trays at all times.

   B. Replace the sealed emergency cart medication to the assigned staff member whenever requested, to replace a tray with expired medications or broken wrapper/seal.

   C. Maintain a supply of yellow links for use on emergency carts in all KKUH/KAUH areas.

   D. Check medication trays monthly.

8. **Program Directors have overall authority for programs throughout KKUH/KAUH and shall:**

   A. Ratify course content, ensuring standardization of course content across the Center.

   B. Ensure identified standards and guidelines, as identified by the Center, and in accordance with the accredited body, are followed for each specific course.

   C. Liaise with course directors in coordinating courses.

   D. Appoint a course director for each course.

   E. Appoint and maintain a multidisciplinary pool of instructors.

9. **Course Directors shall:**

   A. Liaise with Program Director regarding any problems, concerns or issues that may arise.

   B. Ensure identified standards and guidelines as identified by the Center are followed for each specific course.

   C. Act as instructors.