

DR.RADHAKRISHNAN GOVERNMENT MEDICAL COLLEGE, HAMIRPUR (HP).

NOTICE

Notice for procurement of skill lab items i.e. (01.) ADULT CPR Manikin, (02.) Pediatric CPR Manikin, (3.) Infant CPR Manikin & (4.) AED Trainer are being proprietary articles under Rule 104 of HPFR 2009.

The Department of General Medicine of Dr. Radhakrishnan Government Medical College & Hospital, Hamirpur (HP) intends to purchase having following detailed items with specifications for setting up Skill Lab / Life Support system Lab in this institution:-

**1. Adult CPR Manikin:**

1. The manikin should be realistic in appearance, and easy to clean to prevent cross-infections.
2. The manikin should have a soft nose which can be occluded using the nose pinch technique, to teach proper CPR techniques by simulating the anatomical and physiological conditions present during CPR.
3. The manikin should be supplied with a removable full face mask.
4. The manikin should have an open oral and nasal passage which leads to the lower airway.
5. The manikin should have an articulating jaw to facilitate a modified jaw thrust maneuvers to open the airway
6. The manikin should be able to facilitate a head tilt/chin lift manoeuvre.
7. The manikin should have compliance similar to human body for ventilation and compressions with a visible chest rise during ventilation.
8. The manikin should have a disposable lower airway with an integral one way valve.
9. The manikin should have a completely removable chest cover
10. The manikin should have a one piece rib/stomach plate which can facilitate abdominal thrusts
11. The manikin should have a removable compression spring.
12. The manikin should have a compression clicker which provides audible feedback, which can be turned on and off without dismantling the manikin.
13. The face mask shall be easily changed and suitable for individual student use.
14. Manikin should be supplied with a soft padded training mat.
15. Should be compatible with AED learning system with sensor for AED pads.
16. Should be compatible for remote learning and Should have a carry case
17. Should comply with latest CPR guidelines. The manikin should be able to withstand high temperature (50°C).
18. It should have a feedback system. The system should have facility to take print of the report. Report should have all essential information as per recent AHA guidelines and must be upgradable as per newer guidelines released in subsequent years.
19. The manikin should be able to withstand high temperature (50°C)

## 2. Paediatric CPR Manikin-

1. The manikin should be realistic in appearance, full body manikin.
2. The manikin should be supplied with a full face mask.
3. The head should be rotatable and extendable.
4. The manikin should be able to withstand high temperature (50°C).
5. The Manikin should have natural obstruction of the airway that allow students to learn the technique of opening the airway
6. Head tilt, chin lift and jaw thrust should be possible on manikin.
7. The Manikin should have realistic chest compliance for students to experience the proper technique of chest compressions in infants
8. The manikin should have visible chest raise during ventilation.
9. The Manikin should allow foreign-body airway obstruction feature to practice the release of a foreign-body obstruction through back blows and chest-thrust techniques
10. The Manikin should have removable and reusable faces for convenient cleaning and maintenance. Should be supplied with: 10 Airways, 10 FBAO pieces
11. Should comply by latest CPR guidelines by AHA.
12. Should provide feedback on depth, chest recoil, rate of compression, interruption time and ventilation volume.
13. It should have a feedback system. The system should have facility to take print of the report. Report should have all essential information as per recent AHA guidelines and must be upgradable as per newer guidelines released in subsequent years.
14. Should allow instructor to monitor multiple students performance at one time through smart phone or device.
14. Should have a carry case.
15. Should have a remote learning facility.

### 3. Infant CPR Manikin:

1. The manikin should be realistic in appearance, Infant Full Body Manikin
2. The manikin should have a removable full-face mask.
3. The length of mannequin should not be more than 50 cm and weight should not more than 1.5 kg
4. The Manikin Skin be should realistic.
5. The manikin should be able to withstand High Temperature (50°C).
6. The Manikin Should have Natural obstruction of the airway that allow students to learn the important technique of opening the airway
7. The manikin should Head tilt/chin lift and jaw thrust should allow students to practice correctly all manoeuvres necessary when resuscitating a real patient
8. Software shall be available for free downloads as many times as required providing real-time wireless feedback on compressions and ventilations
9. It shall be able to monitor and connect to get the live feedback from more than 5 individual BLS Torso mannequins simultaneously for group training.
10. It should have a feedback system. The system should have facility to take print of the report. Report should have all essential information as per recent AHA guidelines and must be upgradable as per newer guidelines released in subsequent years.
10. It shall help provide improvement tips based on CPR performance of Compression depth, rate release, time and chest compression fraction.
12. Indication of too little, OK or excessive ventilation volumes
- 13 The Manikin should allow Foreign-body airway obstruction feature to practice the release of a foreign-body obstruction through back blows and chest-thrust techniques
10. The manikin should have Economical disposable airways for quick and easy clean up
11. The Manikin should have Removable and reusable faces for convenient and affordable maintenance. Demonstration at office Should be supplied with 1 Manikin : 10 Airways, 10 Foreign Body Practice Objects, and manual

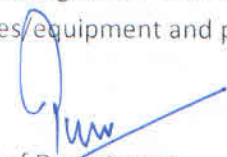


#### 4. AED Trainer:

1. Should be designed to prepare emergency responders to use the AED providing variety of simulations and allow them to learn the use of AED in emergency.
2. It should have Defibrillator protector
3. Output Energy : May have different selectable energy levels.
4. Synchronized cardio version mode Charge time: less than 5 seconds Display of delivered energy should be there.
5. Paddles: Anterior Adult and Paediatric puddles, Sterilizable , should have paddle contact indicator for good response during defibrillation, "Defib on" message display on Monitor.
6. Should prompt proper pad placement.
7. The system should have event summary. The unit must have alarms for various arrhythmias. The model should have 4 connector 3-lead feature to allow students to monitor ECG rhythms during training. The model must simulate the following cardiac rhythms in the manikin:
  - i. Normal Sinus Rhythm (NSR)
  - ii. Ventricular fibrillation
  - iii. Ventricular Tachycardia with pulse
  - iv. Ventricular Tachycardia, without pulse (pulseless)
  - v. Asystole
  - vi. PEA/EMD (pulseless electrical activity / electromechanical dissociation)
  - vii. Non shockable rhythm. (SVT)
8. Visible and audible alarms for heart rate, arrhythmia and paddles & ECG cable disconnection.
9. Unit should have in – built rechargeable battery with minimum of 2 hours of monitoring and 50 defibrillation charge and Charging automatic when 'plugged in'. Should have cell operation also.
10. Low battery voltage message display on monitor
11. Should comply with latest ACC/AHA guidelines.
12. Should have a carry case.

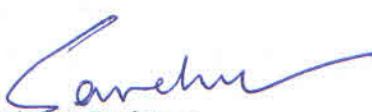
As per knowledge of college and department concerned, the said articles / items is only manufactured by M/S LAERDAL MEDICAL INDIA PVT LTD> (Principal Firm) and the said firm sells the same items through its authorized agent /dealer M/S Surgitek Chandigarh. The Proprietary certificated issued by the OEM is attached as Annexure –I.

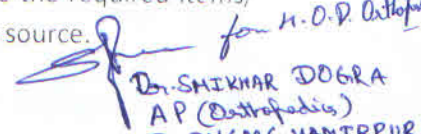
In case there is any other OEM for the above items/ articles, then they are requested to submit their proposal to this Medical College through email [principal.hamirpur@gmail.com](mailto:principal.hamirpur@gmail.com) , hard copy latest by 10 days failing which it will be presumed that here is no other firm who manufacture the required items/ articles/equipment and purchase will be processed and finalized from the available source.

  
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**ORTHOPEDICS**



**Item No. 01 - Adult CPR Manikin**

Date – 29<sup>th</sup> Dec 2020

## Proprietary Certificate & Letter of Confirmation

### To Whom It May Concern

We, Laerdal Medical India Private Limited, having registered office at No.10, 1st Floor, 1st Street, Dr. Subbarayan Nagar, Kodambakkam, Chennai – 600 024, Tamil Nadu, India certify that Little Anne QCPR is a proprietary product of Laerdal Medical. Having the following unique features –

- **Life-like anatomy**  
Perform nose-pinch, head tilt, chin lift and jaw thrust to see chest rise. Anatomically correct oral and nasal passage
- **Correct compression force**  
See and hear that compressions are done correctly. A built-in clicker signals when the correct compression depth achieved.
- **Quick & easy maintenance**  
Clean-up is easy with disposable lungs and removable faces. Made with Laerdal's patented design and materials; it's built to last.
- **Guideline compliant**  
With objective feedback on compressions and ventilations, Little Anne QCPR is future proof. It teaches all the parameters of high-quality CPR as defined by the AHA.
- **Real-time CPR feedback**  
Check how every learner is performing with feedback on depth, release, rate and ventilations.
- **Intelligent scoring and guidance**  
Give every learner tips on performance and improvements with intelligent scoring functionality. Motivate learners go from "passed" to perfection. Performance scores and summaries are saved in the app.
- **QCPR race competition**  
Finish every training session with an informal and fun QCPR race. Increase engagement using the thrill of competition.
- **Rock solid connection**  
Connect every manikin to the instructor app with stable and reliable one-click Bluetooth Smart connection. Built-in tutorials and how-to videos.







**Laerda**

helping save lives

**Item No. 02 - Paediatric CPR Manikin**  
Date – 29<sup>th</sup> Dec 2020

## Proprietary Certificate & Letter of Confirmation

### To Whom It May Concern

We, Laerdal Medical India Private Limited, having registered office at No.10, 1st Floor, 1st Street, Dr. Subbarayan Nagar, Kodambakkam, Chennai – 600 024, Tamil Nadu, India certify that Resusci Junior QCPR is a proprietary product of Laerdal Medical. Having the following unique features –

#### **Fully Guideline compliant**

Quickly set up your training session to support the measurement and scoring Guidelines you wish to use.

#### **Practical & Portable**

An ideal mobile solution for training wherever needed, with a carrying case that doubles as training mat and the ability for battery operation.

#### **Minimal set up time**

Bluetooth allows for wireless connectivity to SimPad PLUS with SkillReporter and the QCPR Learner and Instructor apps for phones and tablets. Resusci Junior QCPR can also be connected to a SkillGuide to provide feedback to learners directly

#### **Key metrics measured include:**

- Correct compression depth
- Appropriate compression rate
- Full release
- Enough hands-on time
- Adequate ventilation

- Improved compression mechanism - humanlike and stable
- Guidelines 2015 compliant - compression depth 50 – 60 mm
- Realistic ventilation for bag valve mask and mouth to mouth - chest rise, neck tilt and optional audible feedback
- New electronics - Bluetooth Low Energy (BTLE) and sensors
- Battery operated, can also be used with mains power
- Training mat - doubles as carrying bag





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**Item No. 03 - Infant CPR Manikin**

**Date – 29<sup>th</sup> Dec 2020**

## Proprietary Certificate & Letter of Confirmation

### To Whom It May Concern

We, Laerdal Medical India Private Limited, having registered office at No.10, 1st Floor, 1st Street, Dr. Subbarayan Nagar, Kodambakkam, Chennai – 600 024, Tamil Nadu, India certify that Little Baby QCPR is a proprietary product of Laerdal Medical. Having the following unique features –

#### **Set up a class in no-time**

Use the one-click-connection to set up training. The QCPR app onboarding guides you through the setup of your classroom.

#### **Engage your learners**

Increase engagement and confidence in both learner and instructor with a combination of realistic feel and intuitive feedback.

#### **AHA Guidelines compliant**

With objective feedback on compressions and ventilations, Little Baby QCPR teaches all the key parameters of quality CPR as defined by the American Heart Association.

#### **Foreign body removal**

Choking is one of the biggest reasons for cardiac arrest in infants. With Little Baby QCPR, you allow learners to practice the not-so-gentle touch to see what it takes to remove airway obstructions.

#### **Correct hand placement**

Spot incorrect hand placement with built-in sensors and QCPR app to instantly adjust learners' performance.

#### **Act when it matters**

Practice correct compressions, ventilations, and foreign body removal so that learners act with confidence when it matters the most.

The 3-month-old Little Baby QCPR's features include:

- Head-tilt with open/locked airway
- Feedback on hand positioning
- Visible chest-rise on ventilations
- See and feel the baby's ribs
- Landmarks, nipples, breast tip
- Limbs with realistic movement
- Durable construction with realistic length and weight
- 2 AA batteries will last for months and are easily changed.



Laerdal Medical A/S

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**Item No. 04 - AED Trainer**

**Date – 29<sup>th</sup> Dec 2020**

## Proprietary Certificate & Letter of Confirmation

### To Whom It May Concern

We, Laerdal Medical India Private Limited, having registered office at No.10, 1st Floor, 1st Street, Dr. Subbarayan Nagar, Kodambakkam, Chennai – 600 024, Tamil Nadu, India certify that SimStart is a proprietary product of Laerdal Medical. Having the following unique features –

SimStart is a portable and affordable training solution to simulate the use of an AED or a defibrillator monitor. Integrate SimStart with any Laerdal manikin or patient simulator to achieve a more comprehensive and realistic simulation training. SimStart can also serve as an easy entry point for organizations looking to get started with simulation training.

#### **Track vital signs**

Add AED or defibrillator monitor to your simulation scenarios to provide learners with a lifelike learning situation.

#### **Capture data**

Capture, store and track progress of every learner. All events are automatically registered and logged with LLEAP simulation software, providing richer debriefing and reporting.

#### **Improve performance**

Realistic training combined with data analysis provides a good foundation for quality improvement initiatives.

#### **Simulated AED and defibrillator**

Integrate SimStart with any Laerdal simulator to get a richer simulation experience. Or use it as a stand-alone solution with standardized patients.

#### **Wireless operation and control**

Plan, run and assess your simulation training with LLEAP simulation software. Control the entire simulation with a SimPad PLUS or Instructor PC.

#### **Easy to use**

Quick to set up and easy to use – SimStart is ready when you are. With its generic interface it is also a familiar experience for all learners.

#### **Scenarios for your learning objectives**

Use pre-built scenarios from Laerdal for reliable, reproducible simulations. Or create your own.

